

**VOLUME II: CHAPTER 14**

# **UNCONTROLLED EMISSION FACTOR LISTING FOR CRITERIA AIR POLLUTANTS**

**June 2000**



Prepared by:  
Eastern Research Group, Inc.

Prepared for:  
Point Sources Committee  
Emission Inventory Improvement Program

## DISCLAIMER

This document was furnished to the Emission Inventory Improvement Program and the U.S. Environmental Protection Agency by Eastern Research Group, Inc., Morrisville, North Carolina. This report is a final document and has been reviewed and approved for publication. The opinions, findings, and conclusions expressed represent a consensus of the members of the Emission Inventory Improvement Program.

**Note:** The emission factors presented in this document were taken from the Factor Information Retrieval (FIRE) database management system, version 6.22. The information in this document is not intended to serve as new guidance or policy and does not take the place of *Compilation of Air Pollutant Emission Factors, Fifth Edition, AP-42*.

## ACKNOWLEDGMENT

This document was prepared by Eastern Research Group, Inc. for the Point Sources Committee of the Emission Inventory Improvement Program and for Roy Huntley of the Emission Factor and Inventory Group, U.S. Environmental Protection Agency. Members of the Point Sources Committee contributing to the preparation of this document are:

Denise Alston, ENSR Corporation  
Lynn Barnes, South Carolina Department of Health and Environmental Control  
Bob Betterton, Co-Chair, South Carolina Department of Health and Environmental Control  
Paul Brochi, Texas Natural Resource Conservation Commission  
Richard Forbes, Illinois Environmental Protection Agency  
Alice Fredlund, Louisiana Department of Environmental Quality  
Frank Gao, Delaware Department of Natural Resources and Environmental Control  
Marty Hochhauser, Allegheny County Health Department  
Roy Huntley, Co-Chair, Emission Factor and Inventory Group, U.S. Environmental Protection Agency  
Sonya Lewis-Cheatham, Virginia Department of Environmental Quality  
Toch Mangat, Bay Area Air Quality Management District  
Ralph Patterson, Wisconsin Department of Natural Resources  
Jim Southerland, North Carolina Department of Environment and Natural Resources  
Eitan Tsabari, Omaha Air Quality Control Division  
Bob Wooten, North Carolina Department of Environment and Natural Resources

This page is intentionally left blank

# CONTENTS

---

Section	Page
1	Introduction ..... 14.1-1
1.1	How Will This Document Help Me? ..... 14.1-2
1.2	What is the Purpose of This Document? ..... 14.1-2
1.3	What Assumptions Were Made In Preparing This Document? ..... 14.1-2
1.4	How Was this Document Prepared? ..... 14.1-3
1.5	How Is This Document Organized? ..... 14.1-4
1.6	How Do I Use the Information in This Document? ..... 14.1-6
1.7	Whom Do I Contact for Help? ..... 14.1-16
2	References ..... 14.2-1
Appendix A	Uncontrolled Emission Factor Listing
Appendix B	Uncontrolled PM <sub>2.5</sub> Emission Factors
Appendix C	SCCs with Multiple Emission Factors
Appendix D	Six-Digit SCCs with Multiple SIC Linkings

# FIGURES

---

<b>Figures</b>	<b>Page</b>
14.1-1 Decision Process for Including Criteria Pollutant Emission Factors . . . . .	14.1-5
14.1-2 How to Interpret the Data in this Document . . . . .	14.1-7

# ABBREVIATIONS, ACRONYMS, AND SYMBOLS

---

A	Ash content of fuel, by weight percent, or for fuel oil, specific factor
bbl	Barrels
BOF	Basic Oxygen Furnace
CO	Carbon Monoxide
H.S.S.	Horizontal Stud Soderberg
Lb	Pound
LPG	Liquified Petroleum Gas
MMBtu/Yr	Million British Thermal Units per Year
NO <sub>x</sub>	Nitrogen Oxides
PM	Particulate Matter
RVP	Reid Vapor Pressure, the absolute pressure of gasoline at 100°C in psia as determined by ASTM Method D323-72
S	Sulfur content of fuel, by weight percent
SCC	Source Classification Code
SCFM	Standard Cubic Feet per Minute
SIC	Standard Industrial Classification
SO <sub>x</sub>	Sulfur Oxides
Sq. Ft.	Square Feet
tpy	tons per year
V.S.S.	Vertical Stud Soderberg
VOC	Volatile Organic Compounds
w/	with
w/o	without

# CONVERSION FACTORS

---

To Convert from	To	Multiply By
Barrel (bbl) - Petroleum*	Gallon (gal)	42
Barrel (bbl)	Liter (l)	159
Gallon (gal)	Liter (l)	3.785
Inch (in)	Centimeter (cm)	2.54
Feet (ft)	Meter (m)	0.3048
Square feet (ft <sup>2</sup> )	Square meter (m <sup>2</sup> )	0.0929
Cubic feet (ft <sup>3</sup> )	Cubic meter (m <sup>3</sup> )	0.0283
Cubic feet (ft <sup>3</sup> )	Liters (l)	28.316
Cubic feet/minute	Cubic centimeter/second	472.0
Cubic yard (yd <sup>3</sup> )	Cubic meter (m <sup>3</sup> )	0.77
Board foot	Cubic meter (m <sup>3</sup> )	0.0024
Btu	Gram/calorie (g/cal)	251.98
Pound steam/hour <sup>†</sup>	Btu/hour	1400.0
Btu/hour	Watt	0.293
Pound (lb)	Kilogram (kg)	0.45
Ton	Kilogram (kg)	907.1
Pound/ton (lb/ton)	Gram/kilogram (g/kg)	0.496

\* 42 gal/bbl is the standard as used in the oil industry. For other industries, different gallons/bbl apply.

<sup>†</sup> Typical value based on common boiler design parameters. Value will vary depending upon steam temperature and pressure.



# KEY TO EMISSION FACTOR LISTING

---

1. An “A” accompanying an emission factor means that this factor is the weighted average ash content of the fuel burned, expressed as a percent. See, for example, SCC 1-01-001-01 on page 14.A-6. If the weighted average ash content of the pulverized anthracite coal burned were five percent (5%), then the  $PM_{10}$  emission factor would become  $2.3 \times 5$ , or 11.5 pounds, of  $PM_{10}$  emitted per ton of anthracite coal burned (before control).
2. An “S” accompanying an emission factor means that this factor is the weighted average sulfur content of the fuel burned, expressed as a percent. See, for example, SCC 1-01-004-01 on page 14.A-8. If the weighed average sulfur content of the Grade 6 oil burned were three percent (3%), then the  $SO_x$  emission factor would become  $157 \times 3$ , or 471 pounds of  $SO_x$  emitted per one thousand gallons of Grade 6 oil burned (before control).
3. The entry “---” means that, as yet, we have no emission factor for this SCC and pollutant combination. See, for example, SCC 1-01-002-17 on page 14.A-6.
4. PM refers to **all** particulate matter of **all** sizes.  $PM_{10}$  refers only to particulate matter of aerodynamic diameter less than or equal to 10 micrometers.  $PM_{2.5}$  refers to particulate matter of aerodynamic diameter less than or equal to 2.5 micrometers.

This page is intentionally left blank.

# 1

## INTRODUCTION

---

The Clean Air Act directs the U.S. Environmental Protection Agency (EPA) to identify and set National Ambient Air Quality Standards (NAAQS) for the most common air pollutants. EPA uses these “criteria pollutants” as indicators of air quality. These pollutants are:

- Ozone (O<sub>3</sub>);
- Carbon monoxide (CO);
- Nitrogen oxides (NO<sub>x</sub>);
- Sulfur dioxide (SO<sub>2</sub>);
- Particulate matter with aerodynamic diameter less than or equal to 10 micrometers (PM<sub>10</sub>);
- Particulate matter with aerodynamic diameter less than or equal to 2.5 micrometers (PM<sub>2.5</sub>); and
- Lead (Pb).

In addition to these pollutants, EPA also regulates emissions of volatile organic compounds (VOC) under criteria pollutant programs. VOC are ozone precursors—they react with nitrogen oxides in the atmosphere to form ozone. VOC are emitted from motor vehicle fuel distribution, chemical manufacturing, and a wide variety of industrial, commercial, and consumer solvent uses.

EPA’s current regulatory definition of VOC (40 CFR § 51.100) exempts constituents considered to be negligibly photochemically reactive. These include: methane; ethane; methylene chloride; 1,1,1-trichloroethane (TCA); several Freon compounds; acetone; perchloroethylene; and others. It is anticipated that additional compounds may be exempted from this VOC definition. The exempt compounds are considered negligibly reactive, although some can influence the formation of ozone when present in sufficient amounts. If you encounter a situation where your emission estimation methodology includes emissions exempted from EPA’s definition of VOC, you should consult with your EPA Regional Office for guidance, and document exactly what compounds you are reporting as VOC.

## 1.1 HOW WILL THIS DOCUMENT HELP ME?

This document will help state, local, and tribal air pollution control agency personnel compile an inventory of criteria air pollutant emissions from stationary point sources using the emission factor estimation approach. The information contained in this document is intended to serve as a reference guide only, and is not intended to serve as new guidance or policy.

## 1.2 WHAT IS THE PURPOSE OF THIS DOCUMENT?

The purpose of this document is to provide uncontrolled emission factors from the Factor Information Retrieval (FIRE) database management system, version 6.22 to inventory preparers in an easy-to-use format. Data for only criteria air pollutants are included; this document does NOT provide emission factors for hazardous air pollutants nor does it take the place of *Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition, AP-42*.

## 1.3 WHAT ASSUMPTIONS WERE MADE IN PREPARING THIS DOCUMENT?

This document was prepared based on the following premises:

- That agency personnel using this document are experienced in developing emission inventories using the emission factor estimation approach;
- That inexperienced agency personnel have access to helpful technical information within their agency and have experienced staff available as technical resources;
- That agency personnel are familiar with EPA and Emission Inventory Improvement Program (EIIP) published procedures for compiling emission inventories; and
- That agency personnel who are not familiar with these published procedures have access to these guidance materials through the World Wide Web or other means.

For the inexperienced inventory preparer, please visit the following websites and review the emission inventory guidance materials.

- <http://www.epa.gov/ttn/chief/>
- <http://www.epa.gov/ttn/chief/eiip/>

One useful document found on the CHIEF website is *Handbook for Criteria Pollutant Inventory Development: A Beginner's Guide for Point and Area Sources*. This represents the EPA's most recent guidance on preparing criteria air pollutant inventories. The EIIP website has a series of emission inventory development guidance documents available for downloading as well. In fact, this document that you are reading is also available on the EIIP website. Most, if not all, of the documents available on the above listed websites are also available in hard copy from the National Technical Information Service (NTIS).

## 1.4 HOW WAS THIS DOCUMENT PREPARED?

All of the uncontrolled emission factors presented in this document were taken from the FIRE database management system, version 6.22. FIRE is a database management system containing EPA's recommended emission factors for criteria and hazardous air pollutants. In addition to emission factors, FIRE includes information about industries and their processes and the chemicals emitted. FIRE allows access to criteria and hazardous air pollutant emission factors obtained from AP-42, the *Locating and Estimating (L&E)* document series, and the retired AFSEF and XATEF documents. For those that want to access FIRE directly, you may download the database management system at <http://www.epa.gov/ttn/chief/>.

Users can browse through records in the database or can select specific emission factors by source classification code (SCC), by pollutant name or Chemical Abstract Services (CAS) registry number, or by control device type or code. SCCs are 8-digit codes used to categorize individual processes or unit operations which generate air emissions. A code may correspond to a particular boiler type, a process heater, a reactor vent, etc. A single boiler may have two or more SCCs if it burns more than one fuel oil. FIRE 6.22 contains all of the emission factors from AP-42 through Supplement D and part of Supplement E (through March 15, 1999) of the Fifth Edition.

The criteria air pollutant emission factors from FIRE 6.22 were consolidated by SCC and major standard industrial classification (SIC) code. The SIC Codes categorize the U.S. economy by numbered segments. The nine major categories are: agriculture, forestry, and fishing; mining; construction; manufacturing; transportation, communications, and public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more of these SCCs. Without an appropriate SCC, a process or operation cannot be properly identified and classified for accurate emissions estimations.

Because FIRE does not contain SIC codes, a database linking SIC codes to SCC codes was developed. This database was then used to associate each uncontrolled emission factor in FIRE

with an SIC/SCC combination. For example, electric generating boilers (those whose SCCs begin with 1-01 and 2-01) relate to SIC Code 4911, Electric Services, because they are located in establishments engaged in the generation, transmission, and/or distribution of electric energy for sale.

This database was compiled using a multi-step process. In the first step, the established SIC/SCC combinations were obtained from the document *AIRS Facility Subsystem Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants*.

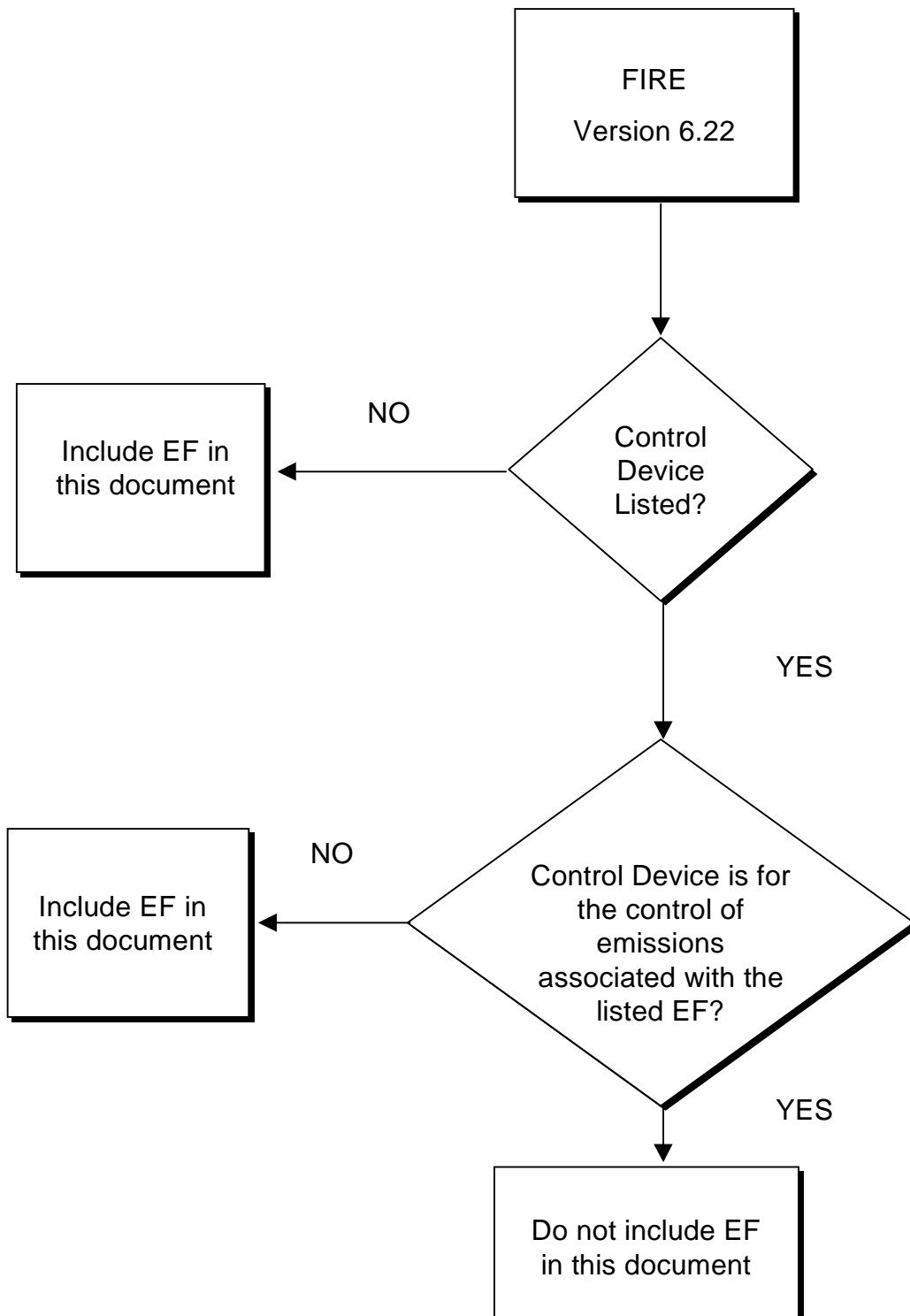
In the second step, the database was supplemented with SIC/SCC combinations that were included in the 1996 National Emissions Trends (NET) system. In the third step, SIC/SCC combinations were obtained from records in the 1996 National Toxics Inventory (NTI). Finally, for all other SCCs, a corresponding SIC code was identified using keyword searches based solely on the description of the SCC. In this last step, the following website was used to identify applicable SIC codes: <http://www.osha.gov/oshstats/sicser.html>.

The uncontrolled emission factors presented in this document were extracted from FIRE 6.22 following a two-step process as shown in Figure 14.1-1. In the first step, the emission factors listed in FIRE with no associated control device were identified and incorporated into this document. In the second step, emission factors with associated control device(s) in FIRE were analyzed further to determine whether the listed control device actually controls the associated pollutant, or whether the listed control device controls emissions of other pollutants from this same process. For example, in FIRE, emission factors for five pollutants emitted from a boiler equipped with a multicyclone appeared as controlled factors. However, in this case, the multicyclone only controls PM and Pb emissions, not CO, NO<sub>x</sub>, or VOC. Thus, the controlled emission factors for PM and Pb were omitted from this document, and the uncontrolled emission factors for CO, NO<sub>x</sub>, and VOC were incorporated.

## 1.5 HOW IS THIS DOCUMENT ORGANIZED?

This document is divided into two major parts. The main body consists of the supporting text and example calculations. The second part of this document contains the appendices that complement the main body.

- Appendix A contains the uncontrolled criteria pollutant emission factor listing.
- Appendix B contains the limited number of uncontrolled emission factors (from FIRE 6.22) for PM<sub>2.5</sub>.



**FIGURE 14.1-1. DECISION PROCESS FOR INCLUDING CRITERIA POLLUTANT EMISSION FACTORS**

- Appendix C contains SCCs for which more than one emission factor was available. Additional information is included to help the user decide which emission factor he/she should select for their particular situation.
- Appendix D contains six-digit SCCs with multiple SIC linkings.

## 1.6 HOW DO I USE THE INFORMATION IN THIS DOCUMENT?

The information presented in this document can be used to estimate emissions using the emission factor methodology approach. Figure 14.1-2 shows how to use the data contained in Appendix A, Uncontrolled Emission Factor Listing.

Emission factors allow the development of generalized estimates of emissions from source categories or individual sources within a category. Emission factors, used extensively in point source inventories, estimate the rate at which a pollutant is released to the atmosphere as a result of some process activity. For example, the emission factor for NO<sub>x</sub> emissions from the combustion of anthracite coal is 9 pounds of NO<sub>x</sub> per 1 ton of coal burned (9 lb/ton). If you know the emission factor and the corresponding activity level for a process, you can estimate the emissions. In most cases, emission factors are expressed simply as a single number, with the underlying assumption that a linear relationship exists between emissions and the specified activity level over the probable range of application. The use of emission factors is straightforward when the relationship between process data and emissions is direct and relatively uncomplicated. Note, however, that emission factors may be developed assuming no control device is in place. These are referred to as “uncontrolled emission factors” and are what appears in this document. When emission factors are derived from data that were obtained from facilities with a control device in place, then emission factors are referred to as “controlled emission factors.” Controlled emission factors are not included in this document.



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<i>External Combustion Boilers - Electric Generation - SIC 4911</i>									
<i>External Combustion Boilers - Electric Generation - Anthracite Coal</i>									
1-01-001-01	Pulverized Coal	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 39 S	18	0.07	0.6	0.0089	Tons Anthracite Burned
1-01-001-02	Traveling Grate (Overfeed) Stoker	<sup>1</sup> 0.8 A	4.8	<sup>2</sup> 39 S	9	0.07	0.6	0.0089	Tons Anthracite Burned
<i>External Combustion Boilers - Electric Generation - Bituminous/Subbituminous Coal</i>									
1-01-002-01	Pulverized Coal: Wet Bottom (Bituminous Coal)	<sup>1</sup> 7 A	<sup>1</sup> 2.6 A	<sup>2</sup> 38 S	31	--	0.5	0.000507	footnote 3
1-01-002-02	Pulverized Coal: Dry Bottom (Bituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 38 S	See App. C	--	0.5	0.000507	footnote 3
1-01-002-03	Cyclone Furnace (Bituminous Coal)	<sup>1</sup> 2 A	0.26 A	<sup>2</sup> 38 S	33	--	0.5	0.000507	footnote 3
1-01-002-04	Spreader Stoker (Bituminous Coal)	66	13.2	<sup>2</sup> 38 S	11	--	5	0.000507	footnote 3

Unique SCC Code  
 Source Category Process  
 Industry/Source Category  
 Footnote which indicates important information  
 4-Digit SIC Code  
 Indicates more than one SCC-pollutant emission factor available. See Appendix C  
 Emission Factor  
 Emission Factor not available  
 Units of measure for the emission factor  
 Footnote in this column indicates multiple units of measure per SCC.

FIGURE 14.1-2. HOW TO INTERPRET THE DATA IN THIS DOCUMENT

Emission factors are usually expressed as the weight of pollutant divided by a unit weight, volume, distance, or duration of the activity emitting the pollutant. To calculate emissions using emission factors, three basic inputs to the estimation algorithm are required:

- Activity information for the process as specified by the relevant emission factor;
- An emission factor to translate activity information into uncontrolled or controlled emission estimates; and
- When applicable, information on capture and control efficiencies<sup>1</sup> of any control device when using an “uncontrolled” emission factor, such as those presented in this document.

**The basic emission estimation equation when using an uncontrolled emission factor is:**

$$E = A \times EF$$

where:

E	=	emission estimate for the process
A	=	activity level such as throughput
EF	=	emission factor assuming no control

---

<sup>1</sup> For a discussion about control device efficiencies, see EIIP Volume II: Point Sources Chapter 12, *How to Incorporate the Effects of Air Pollution Control Device Efficiencies and Malfunctions into Emission Inventory Estimates*.

**Example 1--Coal-fired Industrial Boiler**

This example illustrates the procedures to calculate emissions from an industrial boiler firing anthracite coal.

Assumed Operating Parameters

Coal type: Anthracite  
Annual coal consumption: 928,000 tons per year (tpy)  
Ash content of coal: 7 percent  
Sulfur content of coal: 1.87 percent

Particulate emissions are controlled with a 75 percent efficient cyclone.  
Sulfur oxides emissions are controlled with a 93 percent efficient limestone injection system. (Reference: EIIP Point Sources Committee. Volume II, Chapter 12, *How to Incorporate Air Pollution Control Device Efficiencies and Malfunctions Into Emission Inventory Estimates*.)

Boiler Type: Traveling grate stoker (SCC 1-01-001-02)

Emission Factors

Appendix A, page A.6 provides emission factors for pollutants from anthracite coal combustion in stoker fired boilers:

Particulate matter (PM): = 0.8A lb/ton for PM where A is the ash content of coal in weight percent  
Lead (Pb): = 8.9E-03 lb/ton  
Nitrogen oxides (NO<sub>x</sub>): = 9 lb/ton  
Sulfur dioxide (SO<sub>2</sub>): = 39S lb/ton where S is the weight percent of sulfur in the coal  
Carbon monoxide (CO): = 0.6 lb/ton

**Example 1--Coal-fired Industrial Boiler (Continued)**Estimating Uncontrolled Emissions

The general equation for estimating uncontrolled emissions of Pb, NO<sub>x</sub>, and CO from anthracite coal combustion in boilers is as follows:

$$\text{Boiler Emissions} = \text{Annual Coal Consumption} \times \text{Emission Factor}$$

$$\begin{aligned}\text{Pb} &= 928,000 \text{ tons/year} \times 8.9\text{E-}03 \text{ lb/ton} = 8,259 \text{ lb/year} = 4.1 \text{ tpy} \\ \text{NO}_x &= 928,000 \text{ tons/year} \times 9 \text{ lb/ton} = 8,352,000 \text{ lb/year} = 4,176 \text{ tpy} \\ \text{CO} &= 928,000 \text{ tons/year} \times 0.6 \text{ lb/ton} = 556,800 \text{ lb/year} = 278 \text{ tpy}\end{aligned}$$

The general equation for estimating uncontrolled emissions of PM from anthracite coal combustion in boilers is as follows:

$$\begin{aligned}\text{PM Emissions} &= \text{Annual Coal Consumption} \times (\text{Emission Factor} \times \text{Coal Ash Content}) \\ \text{PM} &= 928,000 \text{ tons/year} \times (0.8 \text{ lb/ton} \times 7) = 5,196,800 \text{ lb/year} \\ &= 2,598 \text{ tpy}\end{aligned}$$

The general equation for estimating uncontrolled emissions of SO<sub>2</sub> from anthracite coal combustion in boilers is as follows:

$$\begin{aligned}\text{SO}_2 \text{ Emissions} &= \text{Annual Coal Consumption} \times (\text{Emission Factor} \times \text{Coal Sulfur Content}) \\ \text{SO}_2 &= 928,000 \text{ tons/year} \times (39 \text{ lb/ton} \times 1.87) = 67,679,040 \text{ lb/year} \\ &= 33,840 \text{ tpy}\end{aligned}$$

**Example 1--Coal-fired Industrial Boiler (Continued)**Estimating Controlled Emissions

Particulate emissions are controlled with a 75 percent efficient cyclone and SO<sub>2</sub> emissions are controlled with a 93 percent efficient limestone injection system. The general equation for estimating controlled emissions of PM and SO<sub>2</sub> is as follows:

$$\text{Controlled Emissions} = \text{Uncontrolled Emissions} \times (1 - \text{Control Efficiency}/100)$$

$$\begin{array}{lcl} \text{PM} & = & 2,598 \text{ tpy} \times (1-75/100) = 2,598 \text{ tpy} \times (0.25) = 650 \text{ tpy} \\ \text{SO}_2 & = & 33,840 \text{ tpy} \times (1-93/100) = 33,840 \text{ tpy} \times (0.07) = 2,369 \text{ tpy} \end{array}$$

**Example 2--Natural Gas And Number 6 Fuel Oil Fired Electric Generating Boiler Emissions**

This example illustrates the use of emissions factors to estimate emissions from an electric generating boiler firing natural gas and Number 6 fuel oil.

Assumed Operating Parameters*Natural Gas* (SCC 1-01-006-01)

Annual Consumption: 99,885 MMBtu/year

Heating Value: 1,032 Btu/scf

Usage: 81% of the time

*Number 6 Fuel Oil* (SCC 1-01-004-01)

Annual Consumption: 147,983 gal/year

Heating Value: 150,000 Btu/gal

Sulfur Content: 1 percent

Nitrogen Content: 0.4 percent

Usage: 19% of the time

Emission Factors

Appendix A, pages A-8 and A-9 provides emission factors for pollutants from electric generating boilers firing Number 6 fuel oil and natural gas, respectively.

*Natural Gas*

PM: 1.9 lb/10<sup>6</sup> scf of gas burned

SO<sub>x</sub> as SO<sub>2</sub>: 0.6 lb/10<sup>6</sup> scf of gas burned

NO<sub>x</sub>: 190 lb/10<sup>6</sup> scf of gas burned

CO: 84 lb/10<sup>6</sup> scf of gas burned

### **Example 2--Natural Gas And Number 6 Fuel Oil Fired Electric Generating Boiler Emissions (Continued)**

#### *Number 6 Fuel Oil*

All emission factors for Number 6 fuel oil are obtained from Appendix A on page A-8:

PM:  $[9.19(S) + 3.22]$  lb/10<sup>3</sup> gal burned where S is the weight percent of sulfur in the oil  
 PM emission factor =  $[9.19(1) + 3.22]$  lb/10<sup>3</sup> gal = 12.41 lb/10<sup>3</sup> gal of oil burned

SO<sub>x</sub> as SO<sub>2</sub>: 157(S) lb/10<sup>3</sup> gal where S is the weight percent of sulfur in the oil  
 SO<sub>2</sub> emission factor = 157(1) = 157 lb/10<sup>3</sup> gal of oil burned

SO<sub>x</sub> as SO<sub>3</sub>\*: 2(S) lb/10<sup>3</sup> gal where S is the weight percent of sulfur in the oil  
 SO<sub>3</sub> emission factor = 2(1) = 2 lb/10<sup>3</sup> gal of oil burned

NO<sub>x</sub>: 47 lb/10<sup>3</sup> gal of oil burned

CO: 5 lb/10<sup>3</sup> gal of oil burned

#### Estimating Uncontrolled Emissions by Fuel Type

##### *Natural Gas*

The general equation for estimating natural gas consumption in scf/year is as follows:

$$\begin{aligned} \text{Annual Consumption} &= \frac{\text{Annual Heat Input}}{\text{Natural Gas Heating Value}} \\ &= \frac{99,885 \times 10^6 \text{ Btu/year}}{1,032 \text{ Btu/scf}} = 96.8 \times 10^6 \text{ scf/year} \end{aligned}$$

\* Refer to AP-42 Section 1.3 for SO<sub>3</sub> emission factors.

**Example 2--Natural Gas And Number 6 Fuel Oil Fired Electric Generating Boiler Emissions (Continued)**

The general equation for estimating uncontrolled emissions from natural gas combustion follows:

$$\text{Natural Gas Emissions} = \text{Annual Gas Consumption} \times \text{Emission Factor}$$

$$\begin{aligned} \text{PM} &= 96.8 \times 10^6 \text{ scf/year} \times 1.9 \text{ lb}/10^6 \text{ scf} = 184 \text{ lb/year} = 0.09 \text{ tpy} \\ \text{SO}_x &= 96.8 \times 10^6 \text{ scf/year} \times 0.6 \text{ lb}/10^6 \text{ scf} = 58 \text{ lb/year} = 0.03 \text{ tpy} \\ \text{NO}_x &= 96.8 \times 10^6 \text{ scf/year} \times 190 \text{ lb}/10^6 \text{ scf} = 18,392 \text{ lb/year} = 9.2 \text{ tpy} \\ \text{CO} &= 96.8 \times 10^6 \text{ scf/year} \times 84 \text{ lb}/10^6 \text{ scf} = 8,131 \text{ lb/year} = 4.07 \text{ tpy} \end{aligned}$$

*Number 6 Fuel Oil*

The general equation for estimating uncontrolled emissions from Number 6 fuel oil combustion in an industrial boiler is as follows:

$$\text{Number 6 Fuel Oil Emissions} = \text{Annual Fuel Oil Consumption} \times \text{Emission Factor}$$

$$\begin{aligned} \text{PM} &= 147,983 \text{ gal/year} \times 12.41 \text{ lb}/10^3 \text{ gal} = 1,836 \text{ lb/year} = 0.92 \text{ tpy} \\ \text{SO}_x \text{ as SO}_2 &= 147,983 \text{ gal/year} \times 157 \text{ lb}/10^3 \text{ gal} = 23,233 \text{ lb/year} = 11.6 \text{ tpy} \\ \text{SO}_x \text{ as SO}_3 &= 147,983 \text{ gal/year} \times 2 \text{ lb}/10^3 \text{ gal} = 296 \text{ lb/year} = 0.15 \text{ tpy} \\ \text{NO}_x \text{ as NO}_2 &= 147,983 \text{ gal/year} \times 47 \text{ lb}/10^3 \text{ gal} = 6,955 \text{ lb/year} = 3.5 \text{ tpy} \\ \text{CO} &= 147,983 \text{ gal/year} \times 5 \text{ lb}/10^3 \text{ gal} = 740 \text{ lb/year} = 0.37 \text{ tpy} \end{aligned}$$

Total SO<sub>x</sub> emissions from the combustion of Number 6 fuel oil is given by the following equation:

$$\text{SO}_x \text{ Emissions} = \text{SO}_2 \text{ emissions} + \text{SO}_3 \text{ emissions} = 11.6 + 0.15 = 11.75 \text{ tpy}$$



**Example 2--Natural Gas And Number 6 Fuel Oil Fired Electric Generating Boiler Emissions (Continued)**Estimating Total Uncontrolled Emissions

Total Emissions = Natural Gas Emissions + Number 6 Fuel Oil Emissions

Total PM = 0.09 tpy + 0.92 tpy = 1.01 tpy  
Total SO<sub>x</sub> = 0.03 tpy + 11.75 tpy = 11.78 tpy  
Total NO<sub>x</sub> = 9.02 tpy + 3.5 tpy = 12.52 tpy  
Total CO = 4.07 tpy + 0.37 tpy = 4.44 tpy

## **1.7 WHOM DO I CONTACT FOR HELP?**

### **Emission Factors**

Comments, questions, or requests for assistance should be addressed to:

InfoCHIEF Hotline  
Phone: (919) 541-5285 or  
E-mail: [info.chief@epa.gov](mailto:info.chief@epa.gov)

### **Source Classification Codes**

Comments, questions, or requests for assistance should be addressed to:

Roy Huntley  
U.S. Environmental Protection Agency  
Emission Factor and Inventory Group  
Phone: (919) 541-1060  
E-mail: [huntley.roy@epa.gov](mailto:huntley.roy@epa.gov)

# 2

## REFERENCES

---

EPA 1999. *Handbook for Criteria Pollutant Inventory Development: A Beginner's Guide for Point and Area Sources*. EPA-454/R-99-037. Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

EPA 1999. Factor Information Retrieval (FIRE) System, Version 6.22. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

EPA 1995. *Compilation of Air Pollutant Emission Factors. Volume I: Stationary Point and Area Sources, Fifth Edition, AP-42*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

EPA 1995. *FIRE Version 5.0 Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

EPA. 1990. *AIRS Facility Subsystem Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants*. EPA-450/4-90-003. Office of Air Quality Planning and Standards. Research Triangle Park, North Carolina.

U.S. Department of Commerce. 1994. *U.S. Industrial Outlook 1994*. Washington, D.C.

This page is intentionally left blank.

# **APPENDIX A**

## **UNCONTROLLED EMISSION FACTOR LISTING**

This page is intentionally left blank.

## KEY TO EMISSION FACTOR LISTING

1. An “A” accompanying an emission factor means that this factor is the weighted average ash content of the fuel burned, expressed as a percent. See, for example, SCC 1-01-001-01 on page 14.A-6. If the weighted average ash content of the pulverized anthracite coal burned were five percent (5%), then the  $PM_{10}$  emission factor would become  $2.3 \times 5$ , or 11.5 pounds, of  $PM_{10}$  emitted per ton of anthracite coal burned (before control).
2. An “S” accompanying an emission factor means that this factor is the weighted average sulfur content of the fuel burned, expressed as a percent. See, for example, SCC 1-01-004-01 on page 14.A-8. If the weighed average sulfur content of the Grade 6 oil burned were three percent (3%), then the  $SO_x$  emission factor would become  $157 \times 3$ , or 471 pounds of  $SO_x$  emitted per one thousand gallons of Grade 6 oil burned (before control).
3. The entry “---” means that, as yet, we have no emission factor for this SCC and pollutant combination. See, for example, SCC 1-01-002-17 on page 14.A-6.
4. PM refers to **all** particulate matter of **all** sizes.  $PM_{10}$  refers only to particulate matter of aerodynamic diameter less than or equal to 10 micrometers.  $PM_{2.5}$  refers to particulate matter of aerodynamic diameter less than or equal to 2.5 micrometers.

## FOOTNOTES FOR APPENDIX A: UNCONTROLLED EMISSION FACTOR LISTING

1. Where A = Ash weight percent of fuel, as fired. For example if ash weight of the fuel is 8.2% then A = 8.2.
2. Where S = Sulfur Content weight percent.
3. For all criteria pollutants, except Lead, the emission factor units are "Pounds per Tons Bituminous Coal Burned"; for Lead, the emission factor unit is "Pounds per million BTUs Heat Input".
4. Where S = Sulfur Content weight percent and (Ca/S) is the molar calcium-to-sulfur ratio in the bed.
5. For all criteria pollutants, except Lead, the emission factor units are "Pounds per Tons Subbituminous Coal Burned"; for Lead, the emission factor unit is "Pounds per million BTUs Heat Input".
6. Where A = weight % ash content of lignite, wet basis. For example, if lignite is 3.4% ash, then A = 3.4.
7. Emission Factor is for PM, total.
8. Where S = wt. % of sulfur in oil.
9. For Number 6 Oil,  $A = 1.12(S) + 0.37$ ; for No. 5 Oil,  $A = 1.2$ ; for No. 4,  $A = 0.84$ ; for No. 2 Oil,  $A = 0.24$ ; S = Sulfur Content weight percent.
10. Emission factor is for SO<sub>2</sub>.
11. For all criteria pollutants, except Lead, the emission factor units are "Pounds per 1000 Gallons Distillate Oil (No. 1 & 2) Burned"; for Lead, the emission factor unit is "Pounds per million BTUs Heat Input".
12. Where "s" is in gr/100 ft<sup>3</sup>.
13. Emission Factor is listed as "controlled" in FIRE 6.22; however, this control technology does not control this pollutant, and thus this factor is considered "uncontrolled".
14. For all criteria pollutants, except CO, the emission factor units are "Pounds per Tons Carbon Black Produced"; for CO, the emission factor unit is "Pounds per million BTUs Heat Input".
15. For PM, filterable, the emission factor unit is "Pounds per Tons Grain Received"; for PM<sub>10</sub>, the emission factor is "Pounds per Tons Grain Processed".



## FOOTNOTES FOR APPENDIX A: UNCONTROLLED EMISSION FACTOR LISTING (CONTINUED)

16. For all criteria pollutants, except PM, filterable, the emission factor units are "Pounds per Tons Raw Beets Processed"; for PM, filterable, the emission factor unit is "Pounds per Tons Pressed Wet Pulp Fed".
17. Equation is  $0.95Y + 0.195T_i - 0.51S - 0.86T_s + 1.90$ , where Y = initial baker's percent of yeast,  $T_i$  = total yeast action time in hours. S = final (spike) baker's percent of yeast, and  $T_s$  = spiking time in hours.
18. For all criteria pollutants, except  $PM_{10}$ , the emission factor units are "Pounds per Tons Coke Produced"; for  $PM_{10}$ , the emission factor unit is "Pounds per Tons Coal Charged".
19. For VOC, CO, and PM, filterable, the emission factor units are "Pounds per Tons Coke Produced"; for  $PM_{10}$ , the emission factor unit is "Pounds per Tons Material Processed"; for  $SO_x$  and  $NO_x$ , the emission factor units are "Pounds per Tons Coal Charged".
20. For PM, filterable, the emission factor unit is "Pounds per Tons Coke Produced"; for  $PM_{10}$ , the emission factor unit is "Pounds per Tons Material Processed"; for  $NO_x$  and VOC, the emission factor units are "Pounds per Tons Coal Charged".
21. For VOC, CO,  $NO_x$ , and PM, filterable, the emission factor units are "Pounds per Tons Coke Produced"; for  $SO_x$  and  $PM_{10}$ , the emission factor units are "Pounds per Tons Coal Charged".
22. For all criteria pollutants, except PM, filterable, the emission factor units are "Pounds per Tons Material Produced"; for PM, filterable, the emission factor unit is "Pounds per Pounds Material Charged".
23. For  $SO_x$ ,  $PM_{10}$ , and PM, filterable, the emission factor units are "Pounds per Tons Concentrated Ore Processed"; for Lead, the emission factor unit is "Pounds per Tons Lead Produced".
24. For all criteria pollutants, except PM, filterable, the emission factor units are "Pounds per Tons Metal Produced"; for PM, filterable, the emission factor unit is "Pounds per Metal Processed".
25. For PM, filterable and VOC, the emission factor units are "Pounds per Tons Coke-free Charge Processed"; for  $PM_{10}$ , the emission factor is "Pounds per Tons Ore Processed".
26. For  $SO_x$ ,  $NO_x$ , PM, filterable, and VOC, the emission factor units are "Pounds per Tons Metal Charged"; for  $PM_{10}$ , the emission factor unit is "Pounds per Tons Metal Produced"; for Lead and CO, the emission factor units are "Pounds per Tons Gray Iron Produced".
27. For all criteria pollutants, except Lead, the emission factor units are "Pounds per Tons Metal Charged"; for Lead, the emission factor unit is "Pounds per Tons Gray Iron Produced".

## FOOTNOTES FOR APPENDIX A: UNCONTROLLED EMISSION FACTOR LISTING (CONTINUED)

28. For CO, VOC, and NO<sub>x</sub>, the emission factor units are "Pounds per Tons Gray Iron Produced"; for PM<sub>10</sub>, the emission factor unit is "Pounds per Tons Metal Produced"; for SO<sub>x</sub> and PM, filterable, the emission factor units are "Pounds per Tons Metal Charged".
29. For PM, filterable, and VOC, the emission factor units are "Pounds per Tons Metal Charged"; for PM<sub>10</sub>, the emission factor unit is "Pounds per Tons Metal Produced".
30. For SO<sub>x</sub>, NO<sub>x</sub>, PM<sub>10</sub>, the emission factor units are "Pounds per Tons Metal Charged"; for Lead and PM, filterable, the emission factor units are "Pounds per Tons Metal Produced".
31. For PM, filterable, SO<sub>x</sub>, NO<sub>x</sub>, PM<sub>10</sub>, the emission factor units are "Pounds per Tons Metal Charged"; for Lead, the emission factor unit is "Pounds per Tons Metal Produced"; for CO, the emission factor unit is "Pounds per Tons Lead Produced".
32. For PM, filterable, and Lead, the emission factor units are "Pounds per Tons Lead Produced"; for PM<sub>10</sub>, the emission factor unit is "Pounds per Tons Metal Charged".
33. For all criteria pollutants, except PM, filterable, the emission factor units are "Pounds per Tons Material Produced"; for PM, filterable, the emission factor unit is "Pounds per Tons Zinc Used".
34. For VOC, NO<sub>x</sub>, and PM<sub>10</sub>, the emission factor units are "Pounds per Tons Material Produced"; for PM, filterable, and SO<sub>x</sub>, the emission factor units are "Pounds per Tons Feed Material Processed".
35. For VOC and PM<sub>10</sub>, the emission factor units are "Pounds per Tons Scrap Processed"; for PM, filterable, the emission factor unit is "Pounds per Tons Material Produced".
36. For NO<sub>x</sub> and CO, the emission factor units are "Pounds per Tons Clinker Produced"; for PM, filterable, PM<sub>10</sub>, SO<sub>x</sub>, and Lead, the emission factor units are "Pounds per Tons Cement Produced".
37. For NO<sub>x</sub>, PM<sub>10</sub>, CO, and PM, filterable, the emission factor units are "Pounds per Tons Clinker Produced"; for SO<sub>x</sub> and Lead, the emission factor units are "Pounds per Tons Cement Produced".
38. For PM, filterable, the emission factor unit is "Pounds per Tons Raw Material Processed"; for PM<sub>10</sub>, the emission factor unit is "Pounds per Tons Finished Product Produced".
39. For SO<sub>x</sub>, the emission factor unit is "Pounds per Tons Wet Coal Dried"; for PM, filterable, the emission factor unit is "Pounds per Tons Coal Dried".
40. For PM<sub>10</sub>, the emission factor unit is "Pounds per Tons Material Processed"; for PM, filterable, the emission factor is "Pounds per Tons Fiber Produced".

## **FOOTNOTES FOR APPENDIX A: UNCONTROLLED EMISSION FACTOR LISTING (CONTINUED)**

41. For all criteria pollutants, except PM, filterable, the emission factor units are "Pounds per Tons Material Charged"; for PM, filterable, the emission factor unit is "Pounds per Tons Material Produced".
42. Emission factor is for PM<sub>10</sub>, total.
43. For all criteria pollutants, except Lead, the emission factor units are "Pounds per 1000 Barrels Oil Burned"; for Lead, the emission factor unit is "Pounds per Million BTUs Heat Input".
44. The emission factor units are labeled as "Grains per Ampere-hour Current Applied" in FIRE 6.22.
45. For all criteria pollutants, except Lead, the emission factor units are "Pounds per 1000 Gallons Crude Oil Burned"; for Lead, the emission factor unit is "Pounds per Million BTUs Heat Input".
46. For PM, filterable and CO, the emission factor units are "Pounds per Each Vehicle Burned"; for VOC, Lead, PM<sub>10</sub>, and NO<sub>x</sub>, the emission factor units are "Pounds per Tons Material Burned".

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

## **External Combustion Boilers**

### **External Combustion Boilers - Electric Generation**

#### **External Combustion Boilers: Electric Generation - Anthracite Coal - SIC 4911**

1-01-001-01	Pulverized Coal	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 39 S	18	0.07	0.6	0.0089	Tons Anthracite Burned
1-01-001-02	Traveling Grate (Overfeed) Stoker	<sup>1</sup> 0.8 A	4.8	<sup>2</sup> 39 S	9	0.07	0.6	0.0089	Tons Anthracite Burned

#### **External Combustion Boilers: Electric Generation - Bituminous/Subbituminous Coal - SIC 4911**

1-01-002-01	Pulverized Coal: Wet Bottom (Bituminous Coal)	<sup>1</sup> 7 A	<sup>1</sup> 2.6 A	<sup>2</sup> 38 S	31	---	0.5	0.000507	footnote 3
1-01-002-02	Pulverized Coal: Dry Bottom (Bituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 38 S	See App. C	---	0.5	0.000507	footnote 3
1-01-002-03	Cyclone Furnace (Bituminous Coal)	<sup>1</sup> 2 A	<sup>1</sup> 0.26 A	<sup>2</sup> 38 S	33	---	0.5	0.000507	footnote 3
1-01-002-04	Spreader Stoker (Bituminous Coal)	66	13.2	<sup>2</sup> 38 S	11	---	5	0.000507	footnote 3
1-01-002-05	Traveling Grate (Overfeed) Stoker (Bituminous Coal)	16	6	<sup>2</sup> 38 S	7.5	---	6	0.000507	footnote 3
1-01-002-11	Wet Bottom (Tangential) (Bituminous Coal)	---	---	<sup>2</sup> 38 S	14	---	0.5	---	Tons Bituminous Coal Burned
1-01-002-12	Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 38 S	See App. C	---	0.5	---	Tons Bituminous Coal Burned
1-01-002-15	Cell Burner (Bituminous Coal)	---	---	<sup>2</sup> 38 S	31	---	0.5	---	Tons Bituminous Coal Burned
1-01-002-17	Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	17	12.4	<sup>4</sup> 39.6(S)(Ca/S)^(-1.9)	15.2	---	18	---	Tons Bituminous Coal Burned
1-01-002-18	Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	17	12.4	<sup>4</sup> 39.6(S)(Ca/S)^(-1.9)	5	---	18	---	Tons Bituminous Coal Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**External Combustion Boilers - Electric Generation**

**External Combustion Boilers: Electric Generation - Bituminous/Subbituminous Coal - SIC 4911**

1-01-002-21	Pulverized Coal: Wet Bottom (Subbituminous Coal)	<sup>1</sup> 7 A	<sup>1</sup> 2.6 A	<sup>2</sup> 35 S	24	---	0.5	0.000507	footnote 5
1-01-002-22	Pulverized Coal: Dry Bottom (Subbituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 35 S	See App. C	---	0.5	0.000507	footnote 5
1-01-002-23	Cyclone Furnace (Subbituminous Coal)	<sup>1</sup> 2 A	<sup>1</sup> 0.26 A	<sup>2</sup> 35 S	17	---	0.5	0.000507	footnote 5
1-01-002-24	Spreader Stoker (Subbituminous Coal)	66	13.2	<sup>2</sup> 35 S	8.8	---	5	0.000507	footnote 5
1-01-002-25	Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	16	6	<sup>2</sup> 35 S	7.5	---	6	0.000507	footnote 5
1-01-002-26	Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 35 S	See App. C	---	0.5	---	Tons Subbituminous Coal Burned
1-01-002-35	Cell Burner (Subbituminous Coal)	---	---	<sup>2</sup> 35 S	14	---	0.5	---	Tons Subbituminous Coal Burned
1-01-002-38	Atmospheric Fluidized Bed Combustion - Circulating Bed (subbitum coal)	---	---	---	---	---	---	---	Tons Subbituminous Coal Burned

**External Combustion Boilers: Electric Generation - Lignite - SIC 4911**

1-01-003-01	Pulverized Coal: Dry Bottom, Wall Fired	<sup>1</sup> 5.1 A	<sup>1</sup> 1.8 A	<sup>2</sup> 30 S	See App. C	---	0.25	---	Tons Lignite Burned
1-01-003-02	Pulverized Coal: Dry Bottom, Tangential Fired	<sup>1</sup> 6.5 A	<sup>6, 7</sup> 6.6 A	<sup>2</sup> 30 S	7.1	---	0.6	---	Tons Lignite Burned
1-01-003-03	Cyclone Furnace	<sup>1</sup> 6.7 A	---	<sup>2</sup> 30 S	15	---	0.6	---	Tons Lignite Burned
1-01-003-04	Traveling Grate (Overfeed) Stoker	<sup>1</sup> 3.4 A	---	<sup>2</sup> 30 S	6	---	6	---	Tons Lignite Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Electric Generation</u></b>									
<b><u>External Combustion Boilers: Electric Generation - Lignite - SIC 4911</u></b>									
1-01-003-06	Spreader Stoker	<sup>1</sup> 8 A	<sup>7, 9</sup> 8 A	<sup>2</sup> 30 S	5.8	---	5	---	Tons Lignite Burned
1-01-003-16	Atmospheric Fluidized Bed ** (See 101003-17 & -18)	---	---	<sup>2</sup> 10 S	3.6	---	0.15	---	Tons Lignite Burned
1-01-003-17	Atmospheric Fluidized Bed Combustion - Bubbling Bed	---	---	<sup>2</sup> 10 S	3.6	---	---	---	Tons Lignite Burned
1-01-003-18	Atmospheric Fluidized Bed Combustion - Circulating Bed	---	---	---	3.6	---	0.15	---	Tons Lignite Burned
<b><u>External Combustion Boilers: Electric Generation - Residual Oil - SIC 4911</u></b>									
1-01-004-01	Grade 6 Oil: Normal Firing	<sup>8</sup> 9.19 S + 3.22	<sup>7, 9</sup> 8.3 A	<sup>2, 10</sup> 157 S	47	---	5	0.00151	1000 Gallons Residual Oil (No. 6) Burned
1-01-004-04	Grade 6 Oil: Tangential Firing	<sup>8</sup> 9.19 S + 3.22	<sup>7, 9</sup> 8.3 A	<sup>2, 10</sup> 157 S	32	---	5	0.00151	1000 Gallons Residual Oil (No. 6) Burned
1-01-004-05	Grade 5 Oil: Normal Firing	10	<sup>7, 9</sup> 8.3 A	<sup>2, 10</sup> 157 S	47	---	5	0.0024	1000 Gallons Residual Oil (No. 5) Burned
1-01-004-06	Grade 5 Oil: Tangential Firing	10	<sup>7, 9</sup> 8.3 A	<sup>2, 10</sup> 157 S	32	---	5	---	1000 Gallons Residual Oil (No. 5) Burned
<b><u>External Combustion Boilers: Electric Generation - Distillate Oil - SIC 4911</u></b>									
1-01-005-01	Grades 1 and 2 Oil	2	1	<sup>2</sup> 143.6 S	24	0.2	5	0.000009	footnote 11
1-01-005-04	Grade 4 Oil: Normal Firing	7	<sup>7, 9</sup> 8.3 A	<sup>2, 10</sup> 150 S	47	---	5	---	1000 Gallons Distillate Oil (No. 4) Burned
1-01-005-05	Grade 4 Oil: Tangential Firing	7	<sup>7, 9</sup> 8.3 A	<sup>2, 10</sup> 150 S	32	---	5	---	1000 Gallons Distillate Oil (No. 4) Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Electric Generation</u></b>									
<b><u>External Combustion Boilers: Electric Generation - Natural Gas - SIC 4911</u></b>									
1-01-006-01	Boilers > 100 Million Btu/hr except Tangential	1.9	<sup>7</sup> 7.6	<sup>10</sup> 0.6	See App. C	5.5	84	0.0005	Million Cubic Feet Natural Gas Burned
1-01-006-02	Boilers < 100 Million Btu/hr except Tangential	1.9	<sup>7</sup> 7.6	<sup>10</sup> 0.6	100	5.5	84	0.0005	Million Cubic Feet Natural Gas Burned
1-01-006-04	Tangentially Fired Units	1.9	<sup>7</sup> 7.6	<sup>10</sup> 0.6	170	5.5	24	0.0005	Million Cubic Feet Natural Gas Burned
<b><u>External Combustion Boilers: Electric Generation - Process Gas - SIC 4911</u></b>									
1-01-007-01	Boilers > 100 Million Btu/hr	3	3	<sup>2</sup> 950 S	280	5.5	84	---	Million Cubic Feet Process Gas Burned
1-01-007-02	Boilers < 100 Million Btu/hr	3	3	<sup>2</sup> 950 S	100	6	84	---	Million Cubic Feet Process Gas Burned
<b><u>External Combustion Boilers: Electric Generation - Coke - SIC 4911</u></b>									
1-01-008-01	All Boiler Sizes	<sup>1</sup> 10 A	<sup>1</sup> 7.9 A	<sup>2</sup> 39 S	21	0.07	0.6	---	Tons Coke Burned
<b><u>External Combustion Boilers: Electric Generation - Wood/Bark Waste - SIC 4911</u></b>									
1-01-009-01	Bark-fired Boiler	---	<sup>7</sup> 48	---	---	---	---	0.0029	Tons Bark Burned
1-01-009-02	Wood/Bark Fired Boiler	---	<sup>7</sup> 7.2	---	---	---	---	---	Tons Wood/Bark Burned
1-01-009-03	Wood-fired Boiler	---	<sup>7</sup> 8.8	---	---	---	---	---	Tons Wood Burned
1-01-009-10	Fuel cell/Dutch oven boilers	---	---	0.075	0.38	---	6.6	---	Tons Wood/Bark Burned
1-01-009-11	Stoker boilers	---	---	0.075	1.5	---	13.6	---	Tons Wood/Bark Burned
1-01-009-12	Fluidized bed combustion boilers	---	---	0.075	2	---	1.4	---	Tons Wood/Bark Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Electric Generation</u></b>									
<b><u>External Combustion Boilers: Electric Generation - Liquefied Petroleum Gas (LPG) - SIC 4911</u></b>									
1-01-010-01	Butane	0.6	0.6	<sup>12</sup> 0.095 s	21	0.26	3.6	---	1000 Gallons Butane Burned
1-01-010-02	Propane	0.6	0.6	<sup>12</sup> 0.095 s	19	0.25	3.2	---	1000 Gallons Propane Burned
<b><u>External Combustion Boilers: Electric Generation - Bagasse - SIC 4911</u></b>									
1-01-011-01	All Boiler Sizes	15.6	---	---	1.2	---	---	---	Tons Bagasse Burned
<b><u>External Combustion Boilers: Electric Generation - Solid Waste - SIC 4911</u></b>									
1-01-012-01	Specify Waste Material in Comments	---	---	---	---	---	<sup>13</sup> 0.0165	0.265	Tons Solid Waste Burned
1-01-012-02	Refuse Derived Fuel	80	---	1.7	5	---	3.6	---	Tons Refuse Derived Fuel Burned
<b><u>External Combustion Boilers: Electric Generation - Liquid Waste - SIC 4911</u></b>									
1-01-013-01	Specify Waste Material in Comments	---	---	---	---	1	---	---	1000 Gallons Liquid Waste Burned
1-01-013-02	Waste Oil	<sup>1</sup> 61 A	<sup>1</sup> 51 A	<sup>2</sup> 147 S	19	1	5	2.2	1000 Gallons Waste Oil Burned
<b><u>External Combustion Boilers - Industrial</u></b>									
<b><u>External Combustion Boilers: Industrial - Anthracite Coal - SIC 1000-3999</u></b>									
1-02-001-01	Pulverized Coal	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 39 S	18	0.07	0.6	0.0089	Tons Anthracite Burned
1-02-001-04	Traveling Grate (Overfeed) Stoker	<sup>1</sup> 0.8 A	4.8	<sup>2</sup> 39 S	9	0.07	0.6	0.0089	Tons Anthracite Burned
1-02-001-07	Hand-fired	10	5.2	<sup>2</sup> 39 S	3	10	90	0.0089	Tons Anthracite Burned
1-02-001-17	Fluidized Bed Boiler Burning Anthracite-Culm Fuel	---	---	<sup>10</sup> 2.9	1.8	---	0.3	---	Tons Anthracite Culm Burned



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Industrial</u></b>									
<b><u>External Combustion Boilers: Industrial - Bituminous/Subbituminous Coal - SIC 1000-3999</u></b>									
1-02-002-01	Pulverized Coal: Wet Bottom	<sup>1</sup> 7 A	<sup>1</sup> 2.6 A	<sup>2</sup> 38 S	31	---	0.5	0.000507	footnote 3
1-02-002-02	Pulverized Coal: Dry Bottom	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 38 S	See App. C	---	0.5	---	Tons Bituminous Coal Burned
1-02-002-03	Cyclone Furnace	<sup>1</sup> 2 A	<sup>1</sup> 0.26 A	<sup>2</sup> 38 S	33	---	0.5	0.000507	footnote 3
1-02-002-04	Spreader Stoker	66	13.2	<sup>2</sup> 38 S	11	---	5	0.000507	footnote 3
1-02-002-05	Overfeed Stoker	16	<sup>7</sup> 16	<sup>2</sup> 38 S	7.5	---	6	0.000507	footnote 3
1-02-002-06	Underfeed Stoker	15	6.2	<sup>2</sup> 31 S	9.5	---	11	0.000507	footnote 3
1-02-002-10	Overfeed Stoker **	16	---	<sup>2</sup> 39 S	7.5	0.07	6	0.0133	Tons Bituminous Coal Burned
1-02-002-12	Pulverized Coal: Dry Bottom (Tangential)	<sup>1</sup> 10 A	<sup>7,9</sup> 10 A	<sup>2</sup> 38 S	See App. C	---	0.5	---	Tons Bituminous Coal Burned
1-02-002-17	Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	17	12.4	<sup>4</sup> 39.6(S)(Ca/S)^(-1.9)	15.2	---	18	---	Tons Bituminous Coal Burned
1-02-002-18	Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	17	12.4	<sup>4</sup> 39.6(S)(Ca/S)^(-1.9)	5	---	18	---	Tons Bituminous Coal Burned
1-02-002-19	Cogeneration	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 39 S	15	0.07	0.6	---	Tons Bituminous Coal Burned
1-02-002-21	Pulverized Coal: Wet Bottom (Subbituminous Coal)	<sup>1</sup> 7 A	<sup>1</sup> 2.6 A	<sup>2</sup> 35 S	24	---	0.5	0.000507	footnote 5
1-02-002-22	Pulverized Coal: Dry Bottom (Subbituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 35 S	See App. C	---	0.5	0.000507	footnote 5
1-02-002-23	Cyclone Furnace (Subbituminous Coal)	<sup>1</sup> 2 A	<sup>1</sup> 0.26 A	<sup>2</sup> 35 S	17	---	0.5	0.000507	footnote 5

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Industrial</u></b>									
<b><u>External Combustion Boilers: Industrial - Bituminous/Subbituminous Coal - SIC 1000-3999</u></b>									
1-02-002-24	Spreader Stoker (Subbituminous Coal)	66	13.2	<sup>2</sup> 35 S	8.8	---	5	0.000507	footnote 5
1-02-002-25	Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	16	6	<sup>2</sup> 35 S	7.5	---	6	0.000507	footnote 5
1-02-002-26	Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)	<sup>1</sup> 10 A	---	<sup>2</sup> 35 S	See App. C	---	0.5	---	Tons Subbituminous Coal Burned
1-02-002-29	Cogeneration (Subbituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 35 S	14.4	0.06	0.6	---	Tons Subbituminous Coal Burned
<b><u>External Combustion Boilers: Industrial - Lignite - SIC 1000-3999</u></b>									
1-02-003-01	Pulverized Coal: Dry Bottom, Wall Fired	---	---	<sup>2</sup> 30 S	---	0.07	---	---	Tons Lignite Burned
1-02-003-02	Pulverized Coal: Dry Bottom, Tangential Fired	---	---	<sup>2</sup> 30 S	---	0.07	0.6	---	Tons Lignite Burned
1-02-003-03	Cyclone Furnace	<sup>1</sup> 6.7 A	<sup>1</sup> 0.86 A	<sup>2</sup> 30 S	---	0.07	0.6	---	Tons Lignite Burned
1-02-003-04	Traveling Grate (Overfeed) Stoker	---	<sup>1</sup> 1.07 A	<sup>2</sup> 30 S	6	0.07	6	---	Tons Lignite Burned
1-02-003-06	Spreader Stoker	---	---	<sup>2</sup> 30 S	---	0.07	5	---	Tons Lignite Burned
1-02-003-07	Cogeneration	<sup>1</sup> 6.5 A	<sup>1</sup> 2.3 A	<sup>2</sup> 30 S	7.3	0.07	0.6	---	Tons Lignite Burned
<b><u>External Combustion Boilers: Industrial - Residual Oil - SIC 1000-3999</u></b>									
1-02-004-01	Grade 6 Oil	<sup>8</sup> 9.19 S + 3.22	<sup>7, 9</sup> 8.34 A	<sup>2, 10</sup> 157 S	47	---	5	---	1000 Gallons Residual Oil (No. 6) Burned
1-02-004-02	10-100 Million Btu/hr **	<sup>8</sup> 9.19 S + 3.22	<sup>7, 9</sup> 8.34 A	<sup>2, 10</sup> 157 S	55	---	5	---	1000 Gallons Residual Oil Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Industrial</u></b>									
<b><u>External Combustion Boilers: Industrial - Residual Oil - SIC 1000-3999</u></b>									
1-02-004-03	< 10 Million Btu/hr **	<b>8</b> 9.19 S + 3.22	<b>7, 9</b> 8.34 A	<b>2, 10</b> 157 S	55	---	5	---	1000 Gallons Residual Oil Burned
1-02-004-04	Grade 5 Oil	10	<b>7, 9</b> 8.34 A	<b>2, 10</b> 157 S	47	---	5	---	1000 Gallons Residual Oil (No. 5) Burned
1-02-004-05	Cogeneration	<b>8</b> 9.19 S + 3.22	<b>8</b> 7.90 S + 2.7	<b>2</b> 158.6 S	55	0.28	5	---	1000 Gallons Residual Oil Burned
<b><u>External Combustion Boilers: Industrial - Distillate Oil - SIC 1000-3999</u></b>									
1-02-005-01	Grades 1 and 2 Oil	2	<b>7</b> 2	<b>2, 10</b> 142 S	24	---	5	0.000009	footnote 11
1-02-005-02	10-100 Million Btu/hr **	2	<b>7</b> 2	<b>2, 10</b> 142 S	20	---	5	---	1000 Gallons Distillate Oil Burned
1-02-005-03	< 10 Million Btu/hr **	2	<b>7</b> 2	<b>2, 10</b> 142 S	20	---	5	---	1000 Gallons Distillate Oil Burned
1-02-005-04	Grade 4 Oil	7	<b>7, 9</b> 8.34 A	<b>2, 10</b> 150 S	47	---	5	---	1000 Gallons Distillate Oil (No. 4) Burned
1-02-005-05	Cogeneration	2	1	<b>2</b> 143.6 S	20	0.2	5	---	1000 Gallons Distillate Oil Burned
<b><u>External Combustion Boilers: Industrial - Natural Gas - SIC 1000-3999</u></b>									
1-02-006-01	> 100 Million Btu/hr	1.9	<b>7</b> 7.6	<b>10</b> 0.6	See App. C	5.5	84	0.0005	Million Cubic Feet Natural Gas Burned
1-02-006-02	10-100 Million Btu/hr	1.9	<b>7</b> 7.6	<b>10</b> 0.6	100	5.5	84	0.0005	Million Cubic Feet Natural Gas Burned
1-02-006-03	< 10 Million Btu/hr	1.9	<b>7</b> 7.6	0.6	100	5.5	84	---	Million Cubic Feet Natural Gas Burned
1-02-006-04	Cogeneration	3	3	<b>10</b> 0.6	170	5.5	24	---	Million Cubic Feet Natural Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Industrial</u></b>									
<b><u>External Combustion Boilers: Industrial - Process Gas - SIC 1000-3999</u></b>									
1-02-007-01	Petroleum Refinery Gas	3	3	<sup>2</sup> 950 S	140	2.8	35	---	Million Cubic Feet Process Gas Burned
1-02-007-04	Blast Furnace Gas	2.9	2.9	<sup>2</sup> 950 S	23	---	13.7	---	Million Cubic Feet Process Gas Burned
1-02-007-07	Coke Oven Gas	6.2	4.35	<sup>2</sup> 680 S	80	1.2	18.4	---	Million Cubic Feet Process Gas Burned
1-02-007-10	Cogeneration	---	---	---	---	2.8	---	---	Million Cubic Feet Process Gas Burned
1-02-007-99	Other: Specify in Comments	---	---	---	---	---	---	0.00000666	Million Btus Heat Input
<b><u>External Combustion Boilers: Industrial - Coke - SIC 1000-3999</u></b>									
1-02-008-02	All Boiler Sizes	<sup>1</sup> 7 A	<sup>1</sup> 5.5 A	<sup>2</sup> 39 S	14	0.07	0.6	---	Tons Coke Burned
1-02-008-04	Cogeneration	<sup>1</sup> 7 A	<sup>1</sup> 5.5 A	<sup>2</sup> 39 S	14	0.07	0.6	---	Tons Coke Burned
<b><u>External Combustion Boilers: Industrial - Wood/Bark Waste - SIC 1000-3999</u></b>									
1-02-009-01	Bark-fired Boiler (> 50,000 Lb Steam)	---	<sup>7</sup> 48	---	---	---	---	0.0029	Tons Bark Burned
1-02-009-02	Wood/Bark-fired Boiler (> 50,000 Lb Steam)	---	<sup>7</sup> 7.2	---	---	---	---	---	Tons Wood/Bark Burned
1-02-009-03	Wood-fired Boiler (> 50,000 Lb Steam)	---	<sup>7</sup> 8.8	---	---	---	---	---	Tons Wood Burned
1-02-009-04	Bark-fired Boiler (< 50,000 Lb Steam)	---	<sup>7</sup> 48	---	---	---	---	0.0029	Tons Bark Burned
1-02-009-05	Wood/Bark-fired Boiler (< 50,000 Lb Steam)	---	<sup>7</sup> 7.2	---	---	---	---	---	Tons Wood/Bark Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Industrial</u></b>									
<b><u>External Combustion Boilers: Industrial - Wood/Bark Waste - SIC 1000-3999</u></b>									
1-02-009-06	Wood-fired Boiler (< 50,000 Lb Steam)	---	<sup>7</sup> 8.8	---	---	---	---	---	Tons Wood Burned
1-02-009-07	Wood Cogeneration	---	---	---	---	---	---	---	Tons Wood Burned
1-02-009-10	Fuel cell/Dutch oven boilers	---	---	0.075	0.38	---	6.6	---	Tons Wood/Bark Burned
1-02-009-11	Stoker boilers	---	---	0.075	1.5	---	13.6	---	Tons Wood/Bark Burned
1-02-009-12	Fluidized bed combustion boiler	---	---	0.075	2	---	1.4	---	Tons Wood/Bark Burned
<b><u>External Combustion Boilers: Industrial - Liquefied Petroleum Gas (LPG) - SIC 1000-3999</u></b>									
1-02-010-01	Butane	0.6	0.6	<sup>12</sup> 0.09 s	21	0.26	3.6	---	1000 Gallons Butane Burned
1-02-010-02	Propane	0.6	0.6	<sup>12</sup> 0.1 s	19	0.25	3.2	---	1000 Gallons Propane Burned
<b><u>External Combustion Boilers: Industrial - Bagasse - SIC 1000-3999</u></b>									
1-02-011-01	All Boiler Sizes	15.6	---	---	1.2	---	---	---	Tons Bagasse Burned
<b><u>External Combustion Boilers: Industrial - Solid Waste - SIC 1000-3999</u></b>									
1-02-012-01	Specify Waste Material in Comments	---	---	1.6	5.9	2	---	---	Tons Solid Waste Burned
1-02-012-02	Refuse Derived Fuel	80	44	1.7	5	---	3.6	0.13	Tons Refuse Derived Fuel Burned
<b><u>External Combustion Boilers: Industrial - Liquid Waste - SIC 1000-3999</u></b>									
1-02-013-01	Specify Waste Material in Comments	---	---	28	23	1	---	---	1000 Gallons Liquid Waste Burned
1-02-013-02	Waste Oil	<sup>1</sup> 61 A	<sup>1</sup> 51 A	<sup>2</sup> 147 S	19	---	5	2.2	1000 Gallons Waste Oil Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Industrial</u></b>									
<b><u>External Combustion Boilers: Industrial - CO Boiler - SIC 1000-3999</u></b>									
1-02-014-01	Natural Gas	---	<sup>7</sup> 13.7	0.6	140	2.8	35	---	Million Cubic Feet Natural Gas Burned
1-02-014-02	Process Gas	---	<sup>7</sup> 13.7	<sup>2</sup> 950 S	140	2.8	35	---	Million Cubic Feet Process Gas Burned
1-02-014-03	Distillate Oil	2	1	<sup>2</sup> 143.6 S	20	0.2	5	---	1000 Gallons Distillate Oil Burned
1-02-014-04	Residual Oil	<sup>8</sup> 9.19 S + 3.22	<sup>8</sup> 7.90 S + 2.7	<sup>2</sup> 158.6 S	55	0.28	5	---	1000 Gallons Residual Oil Burned
<b><u>External Combustion Boilers - Commercial/Institutional</u></b>									
<b><u>External Combustion Boilers: Commercial/Institutional - Anthracite Coal - SIC 4000-4899, 4920-9999</u></b>									
1-03-001-01	Pulverized Coal	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 39 S	18	0.07	0.6	0.0089	Tons Anthracite Burned
1-03-001-02	Traveling Grate (Overfeed) Stoker	<sup>1</sup> 0.8 A	4.8	<sup>2</sup> 39 S	9	0.07	0.6	0.0089	Tons Anthracite Burned
1-03-001-03	Hand-fired	10	5.2	<sup>2</sup> 39 S	3	10	90	0.0089	Tons Anthracite Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Bituminous/Subbituminous Coal - SIC 4000-4899, 4920-9999</u></b>									
1-03-002-03	Cyclone Furnace (Bituminous Coal)	<sup>1</sup> 2 A	<sup>1</sup> 0.26 A	<sup>2</sup> 38 S	33	---	0.5	0.000507	footnote 3
1-03-002-05	Pulverized Coal: Wet Bottom (Bituminous Coal)	<sup>1</sup> 7 A	<sup>1</sup> 2.6 A	<sup>2</sup> 38 S	31	---	0.5	0.000507	footnote 3
1-03-002-06	Pulverized Coal: Dry Bottom (Bituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 38 S	See App. C	---	0.5	0.000507	footnote 3
1-03-002-07	Overfeed Stoker (Bituminous Coal)	16	6	<sup>2</sup> 38 S	7.5	---	6	0.000507	footnote 3
1-03-002-08	Underfeed Stoker (Bituminous Coal)	15	6.2	<sup>2</sup> 31 S	9.5	---	11	---	Tons Bituminous Coal Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Commercial/Institutional</u></b>									
<b><u>External Combustion Boilers: Commercial/Institutional - Bituminous/Subbituminous Coal - SIC 4000-4899, 4920-9999</u></b>									
1-03-002-09	Spreader Stoker (Bituminous Coal)	66	13.2	<sup>2</sup> 38 S	11	---	5	0.000507	footnote 3
1-03-002-11	Overfeed Stoker **	16	---	<sup>2</sup> 39 S	7.5	0.07	6	---	Tons Bituminous Coal Burned
1-03-002-14	Hand-fired (Bituminous Coal)	15	---	<sup>2</sup> 31 S	9.1	---	275	---	Tons Bituminous Coal Burned
1-03-002-16	Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 38 S	See App. C	---	0.5	---	Tons Bituminous Coal Burned
1-03-002-17	Atmospheric Fluidized Bed Combustion: Bubbling Bed (Bituminous Coal)	17	12.4	<sup>4</sup> 39.6(S)(Ca/S)^(-1.9)	15.2	---	18	---	Tons Bituminous Coal Burned
1-03-002-18	Atmospheric Fluidized Bed Combustion: Circulating Bed (Bitum. Coal)	17	12.4	<sup>4</sup> 39.6(S)(Ca/S)^(-1.9)	5	---	18	---	Tons Bituminous Coal Burned
1-03-002-21	Pulverized Coal: Wet Bottom (Subbituminous Coal)	<sup>1</sup> 7 A	<sup>1</sup> 2.6 A	<sup>2</sup> 35 S	24	---	0.5	0.000507	footnote 5
1-03-002-22	Pulverized Coal: Dry Bottom (Subbituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 35 S	See App. C	---	0.5	0.000507	footnote 5
1-03-002-23	Cyclone Furnace (Subbituminous Coal)	<sup>1</sup> 2 A	<sup>1</sup> 0.26 A	<sup>2</sup> 35 S	17	---	0.5	0.000507	footnote 5
1-03-002-24	Spreader Stoker (Subbituminous Coal)	66	13.2	<sup>2</sup> 35 S	8.8	---	5	0.000507	footnote 5
1-03-002-25	Traveling Grate (Overfeed) Stoker (Subbituminous Coal)	16	6	<sup>2</sup> 35 S	7.5	---	6	0.000507	footnote 5
1-03-002-26	Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 35 S	See App. C	---	0.5	---	Tons Subbituminous Coal Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Commercial/Institutional</u></b>									
<b><u>External Combustion Boilers: Commercial/Institutional - Lignite - SIC 4000-4899, 4920-9999</u></b>									
1-03-003-05	Pulverized Coal: Dry Bottom, Wall Fired	---	---	<sup>2</sup> 30 S	---	0.07	---	---	Tons Lignite Burned
1-03-003-06	Pulverized Coal: Dry Bottom, Tangential Fired	---	---	<sup>2</sup> 30 S	---	0.07	0.6	---	Tons Lignite Burned
1-03-003-07	Traveling Grate (Overfeed) Stoker	---	<sup>1</sup> 1.07 A	<sup>2</sup> 30 S	6	0.07	6	---	Tons Lignite Burned
1-03-003-09	Spreader Stoker	---	---	<sup>2</sup> 30 S	---	0.07	5	---	Tons Lignite Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Residual Oil - SIC 4000-4899, 4920-9999</u></b>									
1-03-004-01	Grade 6 Oil	<sup>8</sup> 9.19 S + 3.22	<sup>7, 9</sup> 8.34 A	<sup>2, 10</sup> 157 S	47	---	5	---	1000 Gallons Residual Oil (No. 6) Burned
1-03-004-02	10-100 Million Btu/hr **	<sup>8</sup> 9.19 S + 3.22	<sup>7, 9</sup> 8.34 A	<sup>2, 10</sup> 157 S	55	---	5	---	1000 Gallons Residual Oil Burned
1-03-004-03	< 10 Million Btu/hr **	<sup>8</sup> 9.19 S + 3.22	<sup>7, 9</sup> 8.34 A	<sup>2, 10</sup> 157 S	55	---	5	---	1000 Gallons Residual Oil Burned
1-03-004-04	Grade 5 Oil	10	<sup>7, 9</sup> 8.34 A	<sup>2, 10</sup> 157 S	55	---	5	---	1000 Gallons Residual Oil (No. 5) Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Distillate Oil - SIC 4000-4899, 4920-9999</u></b>									
1-03-005-01	Grades 1 and 2 Oil	2	<sup>7</sup> 2	<sup>2, 10</sup> 142 S	24	---	5	0.000009	footnote 11
1-03-005-02	10-100 Million Btu/hr **	2	<sup>7</sup> 2	<sup>2, 10</sup> 142 S	20	---	5	---	1000 Gallons Distillate Oil Burned
1-03-005-03	< 10 Million Btu/hr **	2	<sup>7</sup> 2	<sup>2, 10</sup> 142 S	20	---	5	---	1000 Gallons Distillate Oil Burned
1-03-005-04	Grade 4 Oil	7	<sup>7</sup> 2	<sup>2, 10</sup> 150 S	20	---	5	---	1000 Gallons Distillate Oil (No. 4) Burned



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Commercial/Institutional</u></b>									
<b><u>External Combustion Boilers: Commercial/Institutional - Natural Gas - SIC 4000-4899, 4920-9999</u></b>									
1-03-006-01	> 100 Million Btu/hr	1.9	<sup>7</sup> 7.6	<sup>10</sup> 0.6	See App. C	5.5	84	0.0005	Million Cubic Feet Natural Gas Burned
1-03-006-02	10-100 Million Btu/hr	1.9	<sup>7</sup> 7.6	<sup>10</sup> 0.6	100	5.5	84	0.0005	Million Cubic Feet Natural Gas Burned
1-03-006-03	< 10 Million Btu/hr	1.9	<sup>7</sup> 7.6	<sup>10</sup> 0.6	100	5.5	84	0.0005	Million Cubic Feet Natural Gas Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Process Gas - SIC 4000-4899, 4920-9999</u></b>									
1-03-007-01	POTW Digester Gas-fired Boiler	---	---	4.5	---	3	---	---	Million Cubic Feet Process Gas Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Wood/Bark Waste - SIC 4000-4899, 4920-9999</u></b>									
1-03-009-01	Bark-fired Boiler	---	<sup>7</sup> 48	---	---	---	---	0.0029	Tons Bark Burned
1-03-009-02	Wood/Bark-fired Boiler	---	<sup>7</sup> 7.2	---	---	---	---	---	Tons Wood/Bark Burned
1-03-009-03	Wood-fired Boiler	---	<sup>7</sup> 8.8	---	---	---	---	---	Tons Wood Burned
1-03-009-10	Fuel cell/Dutch oven boilers	---	---	0.075	0.38	---	6.6	---	Tons Wood/Bark Burned
1-03-009-11	Stoker boilers	---	---	0.075	1.5	---	13.6	---	Tons Wood/Bark Burned
1-03-009-12	Fluidized bed combustion boilers	---	---	0.075	2	---	1.4	---	Tons Wood/Bark Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Liquefied Petroleum Gas (LPG) - SIC 4000-4899, 4920-9999</u></b>									
1-03-010-01	Butane	0.5	0.5	<sup>12</sup> 0.09 s	15	0.5	2.1	---	1000 Gallons Butane Burned
1-03-010-02	Propane	0.4	0.4	<sup>12</sup> 0.1 s	14	0.47	1.9	---	1000 Gallons Propane Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Commercial/Institutional</u></b>									
<b><u>External Combustion Boilers: Commercial/Institutional - Solid Waste - SIC 4000-4899, 4920-9999</u></b>									
1-03-012-01	Specify Waste Material in Comments	---	---	1.6	5.9	2	---	---	Tons Solid Waste Burned
1-03-012-02	Refuse Derived Fuel	80	44	1.7	5	---	3.6	0.13	Tons Refuse Derived Fuel Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Liquid Waste - SIC 4000-4899, 4920-9999</u></b>									
1-03-013-01	Specify Waste Material in Comments	---	---	---	---	1	---	---	1000 Gallons Liquid Waste Burned
1-03-013-02	Waste Oil	<sup>1</sup> 61 A	<sup>1</sup> 51 A	<sup>2</sup> 147 S	19	---	5	2.2	1000 Gallons Waste Oil Burned
<b><u>External Combustion Boilers - Space Heaters</u></b>									
<b><u>External Combustion Boilers: Space Heaters - Industrial - SIC 1000-3999</u></b>									
1-05-001-02	Coal **	---	---	<sup>2</sup> 39 S	3	---	---	---	Tons Coal Burned
1-05-001-05	Distillate Oil	---	2.46	<sup>2</sup> 143.6 S	---	---	---	---	1000 Gallons Distillate Oil Burned
1-05-001-06	Natural Gas	3	3	0.6	100	5.3	20	---	Million Cubic Feet Natural Gas Burned
1-05-001-10	Liquified Petroleum Gas (LPG)	0.6	0.6	<sup>12</sup> 0.095 s	20	---	3.4	---	1000 Gallons Liquified Petroleum Gas (LPG) Burn
1-05-001-13	Waste Oil: Air Atomized Burner	<sup>1</sup> 64 A	<sup>1</sup> 57 A	<sup>2</sup> 107 S	16	---	2.1	2	1000 Gallons Waste Oil Burned
1-05-001-14	Waste Oil: Vaporizing Burner	<sup>1</sup> 2.8 A	<sup>1</sup> 2.8 A	<sup>2</sup> 100 S	11	---	1.7	0.0164	1000 Gallons Waste Oil Burned
<b><u>External Combustion Boilers: Space Heaters - Commercial/Institutional - SIC 4000-4899, 4920-9999</u></b>									
1-05-002-02	Coal **	---	---	<sup>2</sup> 39 S	3	---	---	---	Tons Coal Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**External Combustion Boilers - Space Heaters**

**External Combustion Boilers: Space Heaters - Commercial/Institutional - SIC 4000-4899, 4920-9999**

1-05-002-05	Distillate Oil	---	2.46	<sup>2</sup> 143.6 S	---	0.7	---	---	1000 Gallons Distillate Oil Burned
1-05-002-06	Natural Gas	3	3	0.6	100	5.3	20	---	Million Cubic Feet Natural Gas Burned
1-05-002-09	Wood	8.8	---	0.075	1.5	---	13.6	---	Tons Wood Burned
1-05-002-10	Liquified Petroleum Gas (LPG)	0.45	0.45	<sup>12</sup> 0.095 s	14.5	---	2	---	1000 Gallons Liquified Petroleum Gas (LPG) Burn
1-05-002-13	Waste Oil: Air Atomized Burner	<sup>1</sup> 64 A	<sup>1</sup> 57 A	<sup>2</sup> 107 S	16	---	2.1	2	1000 Gallons Waste Oil Burned
1-05-002-14	Waste Oil: Vaporizing Burner	<sup>1</sup> 2.8 A	<sup>1</sup> 2.8 A	<sup>2</sup> 100 S	11	---	1.7	0.0164	1000 Gallons Waste Oil Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

## **Internal Combustion Engines**

### **Internal Combustion Engines - Electric Generation**

#### **Internal Combustion Engines: Electric Generation - Distillate Oil (Diesel) - SIC 4911**

2-01-001-01	Turbine	<sup>7</sup> 8.54	<sup>2</sup> 5.32	140 S	97.7	---	6.72	0.0081	1000 Gallons Distillate Oil (Diesel) Burned
2-01-001-02	Reciprocating	42.5	42.5	39.7	604	---	130	---	1000 Gallons Distillate Oil (Diesel) Burned

#### **Internal Combustion Engines: Electric Generation - Natural Gas - SIC 4911**

2-01-002-01	Turbine	<sup>7</sup> 44	20.3	0.6	462	1	115	---	Million Cubic Feet Natural Gas Burned
2-01-002-02	Reciprocating	10	10	0.6	2840	116	399	---	Million Cubic Feet Natural Gas Burned

#### **Internal Combustion Engines: Electric Generation - Kerosene/Naphtha (Jet Fuel) - SIC 4911**

2-01-009-01	Turbine	---	<sup>7</sup> 8.54	6.2	97.7	---	6.72	---	1000 Gallons Jet Fuel Burned
2-01-009-02	Reciprocating	42.5	42.5	6.2	604	---	130	---	1000 Gallons Jet Fuel Burned

### **Internal Combustion Engines - Industrial**

#### **Internal Combustion Engines: Industrial - Distillate Oil (Diesel) - SIC 1000-3999**

2-02-001-01	Turbine	---	<sup>7</sup> 8.54	<sup>2</sup> 140 S	97.7	---	6.72	---	1000 Gallons Distillate Oil (Diesel) Burned
2-02-001-02	Reciprocating	42.5	42.5	39.7	604	---	130	---	1000 Gallons Distillate Oil (Diesel) Burned
2-02-001-03	Turbine: Cogeneration	---	<sup>7</sup> 8.54	<sup>2</sup> 140 S	97.7	---	6.72	---	1000 Gallons Distillate Oil (Diesel) Burned
2-02-001-04	Reciprocating: Cogeneration	42.5	42.5	39.7	604	---	130	---	1000 Gallons Distillate Oil (Diesel) Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Internal Combustion Engines - Industrial</u></b>									
<b><u>Internal Combustion Engines: Industrial - Natural Gas - SIC 1000-3999</u></b>									
2-02-002-01	Turbine	---	<sup>7</sup> 44	0.6	357	2.1	179	---	Million Cubic Feet Natural Gas Burned
2-02-002-02	Reciprocating	10	10	0.6	2840	116	399	---	Million Cubic Feet Natural Gas Burned
2-02-002-03	Turbine: Cogeneration	14	14	0.6	413	12.6	115	---	Million Cubic Feet Natural Gas Burned
2-02-002-04	Reciprocating: Cogeneration	10	10	0.6	2840	116	399	---	Million Cubic Feet Natural Gas Burned
2-02-002-52	2-cycle Lean Burn	---	<sup>13</sup> 39.9	0.6	2840	116	399	---	Million Cubic Feet Natural Gas Burned
2-02-002-53	4-cycle Rich Burn	---	---	0.6	2420	31.5	1680	---	Million Cubic Feet Natural Gas Burned
2-02-002-54	4-cycle Lean Burn	---	---	0.6	3360	189	441	---	Million Cubic Feet Natural Gas Burned
<b><u>Internal Combustion Engines: Industrial - Gasoline - SIC 1000-3999</u></b>									
2-02-003-01	Reciprocating	12.6	12.6	10.6	205	---	7900	---	1000 Gallons Gasoline Burned
<b><u>Internal Combustion Engines: Industrial - Large Bore Engine - SIC 1000-3999</u></b>									
2-02-004-01	Diesel	8.49	6.8	<sup>2</sup> 138 S	425	13.7	111	---	1000 Gallons Diesel Burned
2-02-004-02	Dual Fuel (Oil/Gas)	2.2	2	0.7	21.7	1.4	5.53	---	1000 Horsepower-Hours Work Output
2-02-004-03	Cogeneration: Dual Fuel	220	200	70	2170	140	553	---	100,000 Horsepower-Hours Work Output

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Internal Combustion Engines - Industrial</u></b>									
<b><u>Internal Combustion Engines: Industrial - Residual/Crude Oil - SIC 1000-3999</u></b>									
2-02-005-01	Reciprocating	42.5	42.5	<sup>2</sup> 155 S	604	---	130	---	1000 Gallons Residual/Crude Oil Burned
<b><u>Internal Combustion Engines: Industrial - Kerosene/Naphtha (Jet Fuel) - SIC 1000-3999</u></b>									
2-02-009-01	Turbine	---	<sup>7</sup> 8.54	6.2	97.7	---	6.72	---	1000 Gallons Jet Fuel Burned
2-02-009-02	Reciprocating	42.5	42.5	6.2	604	---	130	---	1000 Gallons Jet Fuel Burned
<b><u>Internal Combustion Engines - Commercial/Institutional</u></b>									
<b><u>Internal Combustion Engines: Commercial/Institutional - Distillate Oil (Diesel) - SIC 4000-4899, 4920-9999</u></b>									
2-03-001-01	Reciprocating	42.5	42.5	39.7	604	---	130	---	1000 Gallons Distillate Oil (Diesel) Burned
2-03-001-02	Turbine	---	<sup>7</sup> 8.54	<sup>2</sup> 140 S	97.7	---	6.72	---	1000 Gallons Distillate Oil (Diesel) Burned
<b><u>Internal Combustion Engines: Commercial/Institutional - Natural Gas - SIC 4000-4899, 4920-9999</u></b>									
2-03-002-01	Reciprocating	10	10	0.6	2840	116	399	---	Million Cubic Feet Natural Gas Burned
2-03-002-02	Turbine	---	<sup>7</sup> 44	0.6	462	1	115	---	Million Cubic Feet Natural Gas Burned
<b><u>Internal Combustion Engines: Commercial/Institutional - Gasoline - SIC 4000-4899, 4920-9999</u></b>									
2-03-003-01	Reciprocating	12.6	12.6	10.6	205	---	7900	---	1000 Gallons Gasoline Burned
<b><u>Internal Combustion Engines - Engine Testing</u></b>									
<b><u>Internal Combustion Engines: Engine Testing - Turbine - SIC 3500-3599, 3700-3799</u></b>									
2-04-003-01	Natural Gas	14	14	0.6	300	6.9	120	---	Million Cubic Feet Natural Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Internal Combustion Engines - Engine Testing**

**Internal Combustion Engines: Engine Testing - Turbine - SIC 3500-3599, 3700-3799**

2-04-003-02	Diesel/Kerosene	---	<sup>7</sup> 8.54	<sup>2</sup> 140 S	97.7	---	6.72	---	1000 Gallons Diesel/Kerosene Burned
-------------	-----------------	-----	----------------------	-----------------------	------	-----	------	-----	--

**Internal Combustion Engines: Engine Testing - Reciprocating Engine - SIC 3500-3599, 3700-3799**

2-04-004-01	Gasoline	6.47	6.2	5.31	102	148	3940	---	1000 Gallons Gasoline Burned
2-04-004-02	Diesel/Kerosene	42.5	42.5	39.7	604	---	130	---	1000 Gallons Diesel/Kerosene Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

## **Industrial Processes**

### **Industrial Processes - Chemical Manufacturing**

#### **Industrial Processes: Chemical Manufacturing - Adipic Acid - SIC 2869**

3-01-001-01	General	0.9	0.037	---	---	42.7	115	---	Tons Adipic Acid Produced
3-01-001-02	Raw Material Storage	---	---	---	---	2.2	---	---	Tons Adipic Acid Produced
3-01-001-03	Cyclohexane Oxidation	---	---	---	1.4	0.55	0.49	---	Tons Adipic Acid Produced
3-01-001-04	Nitric Acid Reaction	---	---	---	1.6	0.014	0.28	---	Tons Adipic Acid Produced
3-01-001-05	Adipic Acid Refining	0.1	0.004	---	0.6	0.5	---	---	Tons Adipic Acid Produced
3-01-001-06	Drying, Loading, and Storage	0.8	0.032	---	---	0.1	---	---	Tons Adipic Acid Produced
3-01-001-07	Absorber	---	---	---	94.8	0.4	---	---	Tons Adipic Acid Produced
3-01-001-80	Fugitive Emissions: General	---	---	---	---	61800	---	---	Each-Year Process Unit Operating

#### **Industrial Processes: Chemical Manufacturing - Ammonia Production - SIC 2873**

3-01-003-05	Feedstock Desulfurization	---	---	0.019	---	7.2	13.8	---	Tons Ammonia Produced
3-01-003-06	Primary Reformer: Natural Gas Fired	0.144	0.144	0.0048	5.4	0.012	0.136	---	Tons Ammonia Produced
3-01-003-07	Primary Reformer: Oil Fired	0.9	0.86	2.6	5.4	0.38	0.24	---	Tons Ammonia Produced
3-01-003-08	Carbon Dioxide Regenerator	---	---	---	---	1.04	2	---	Tons Ammonia Produced
3-01-003-09	Condensate Stripper	---	---	---	---	1.2	---	---	Tons Ammonia Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Carbon Black Production - SIC 2895</u></b>									
3-01-005-03	Gas Furnace Process: Main Process Vent	---	3.2	---	---	---	---	---	Tons Carbon Black Produced
3-01-005-04	Oil Furnace Process: Main Process Vent	6.53	6.53	---	0.56	100	2800	---	Tons Carbon Black Produced
3-01-005-06	Transport Air Vent	0.58	0.58	---	---	---	---	---	Tons Carbon Black Produced
3-01-005-07	Pellet Dryer	0.45	0.24	0.52	0.73	0.4	---	---	Tons Carbon Black Produced
3-01-005-08	Bagging/Loading	0.06	0.06	---	---	---	---	---	Tons Carbon Black Produced
3-01-005-09	Furnace Process: Fugitive Emissions	0.2	0.2	---	---	---	---	---	Tons Carbon Black Produced
3-01-005-10	Main Process Vent with CO Boiler and Incinerator	2.07	---	35.2	9.3	1.98	1.75	---	Tons Carbon Black Produced
<b><u>Industrial Processes: Chemical Manufacturing - Charcoal Manufacturing - SIC 2861</u></b>									
3-01-006-03	Batch Kiln	---	310	---	24	270	290	---	Tons Charcoal Produced
3-01-006-04	Continuous Kiln	---	310	---	24	270	290	---	Tons Charcoal Produced
3-01-006-05	Briquetting	---	56	---	---	---	---	---	Tons Charcoal Produced
<b><u>Industrial Processes: Chemical Manufacturing - Cleaning Chemicals - SIC 2841, 2842</u></b>									
3-01-009-01	Spray Drying: Soaps and Detergents	90	---	---	---	0.05	---	---	Tons Material Produced
<b><u>Industrial Processes: Chemical Manufacturing - Explosives (Trinitrotoluene) - SIC 2892</u></b>									
3-01-010-11	Batch Process: Nitration Reactors Fume Recovery	---	---	---	25	---	---	---	Tons Material Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Explosives (Trinitrotoluene) - SIC 2892</u></b>									
3-01-010-12	Batch Process: Nitration Reactors Acid Recovery	---	---	---	55	---	---	---	Tons Material Produced
3-01-010-13	Batch Process: Nitric Acid Concentrators	---	---	---	37	---	---	---	Tons Material Produced
3-01-010-14	Batch Process: Sulfuric Acid Concentrators	---	---	14	40	---	---	---	Tons Material Produced
3-01-010-15	Batch Process: Red Water Incinerator	25	23.5	2	26	1.1	---	---	Tons Material Produced
3-01-010-21	Continuous Process: Nitration Reactor Fume Recover **(Use 3- 01-010-51)	---	---	---	8	---	---	---	Tons Material Produced
3-01-010-22	Continuous Process: Nitration Reactor Acid Recover **(Use 3-01- 010-52)	---	---	---	3	---	---	---	Tons Material Produced
3-01-010-23	Continuous Process: Red Water Incinerator ** (Use 3-01-010-53)	0.25	0.24	0.24	7	1.1	---	---	Tons Material Produced
3-01-010-30	Open Burning: Waste	180	142	---	150	1.1	56	---	Tons TNT Burned
<b><u>Industrial Processes: Chemical Manufacturing - Hydrofluoric Acid - SIC 2819</u></b>									
3-01-012-02	Rotary Kiln: Acid Reactor	---	---	2.7	0.07	---	---	---	Tons Acid Produced
3-01-012-03	Fluorspar Grinding/Drying	75	38.9	---	0.145	---	---	---	Tons Fluorspar Handled
3-01-012-04	Fluorspar Handling Silos	60	30.6	---	---	---	---	---	Tons Fluorspar Handled
3-01-012-05	Fluorspar Transfer	6	3.1	---	---	---	---	---	Tons Fluorspar Handled
3-01-012-06	Tail Gas Vent	---	---	45	---	---	---	---	Tons Acid Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Nitric Acid - SIC 2873</u></b>									
3-01-013-01	Absorber Tail Gas (Pre-1970 Facilities)	---	---	---	43	---	---	---	Tons Pure Acid Produced
3-01-013-02	Absorber Tail Gas (Post-1970 Facilities)	---	---	---	See App. C	---	---	---	Tons Pure Acid Produced
3-01-013-03	Nitric Acid Concentrators (Pre-1970)	---	---	---	10	---	---	---	Tons Pure Acid Produced
3-01-013-04	Nitric Acid Concentrators (Post-1970)	---	---	---	10	---	---	---	Tons Pure Acid Produced
<b><u>Industrial Processes: Chemical Manufacturing - Paint Manufacture - SIC 2851</u></b>									
3-01-014-01	General Mixing and Handling	20	---	---	---	30	---	---	Tons Paint Produced
3-01-014-02	Pigment Handling	20	17	---	---	---	---	---	Tons Pigment Processed
<b><u>Industrial Processes: Chemical Manufacturing - Varnish Manufacturing - SIC 2851</u></b>									
3-01-015-01	Bodying Oil	---	---	---	---	40	---	---	Tons Material Produced
3-01-015-02	Oleoresinous	---	---	---	---	150	---	---	Tons Material Produced
3-01-015-03	Alkyd	---	---	---	---	160	---	---	Tons Material Produced
3-01-015-05	Acrylic	---	---	---	---	20	---	---	Tons Material Produced
<b><u>Industrial Processes: Chemical Manufacturing - Phosphoric Acid: Thermal Process - SIC 2874</u></b>									
3-01-017-03	Absorber with Packed Tower	2.14	2.14	---	---	---	---	---	Tons P2O5 Produced
3-01-017-04	Absorber with Venturi Scrubber	2.53	2.53	---	---	---	---	---	Tons P2O5 Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Phosphoric Acid: Thermal Process - SIC 2874</u></b>									
3-01-017-05	Absorber with Glass Mist Eliminator	0.69	0.69	---	---	---	---	---	Tons P2O5 Produced
3-01-017-06	Absorber with Wire Mist Eliminator	5.46	5.46	---	---	---	---	---	Tons P2O5 Produced
3-01-017-07	Absorber with High-pressure Mist Eliminator	0.11	0.11	---	---	---	---	---	Tons P2O5 Produced
3-01-017-08	Absorber with ESP	1.66	1.66	---	---	---	---	---	Tons P2O5 Produced
<b><u>Industrial Processes: Chemical Manufacturing - Plastics Production - SIC 2821</u></b>									
3-01-018-01	Polyvinyl Chlorides and Copolymers ** (Use 6-46-3X0-XX)	35	23	0.025	200	17	---	---	Tons Product Produced
3-01-018-02	Polypropylene and Copolymers	3	2	---	131	0.7	---	---	Tons Product Produced
3-01-018-07	General: Polyethylene (High Density)	---	0.66	---	---	---	---	---	Tons Product Produced
3-01-018-09	Extruder	---	---	---	---	11	---	---	Tons Product Produced
3-01-018-10	Conveying	---	---	---	---	0.46	---	---	Tons Product Produced
3-01-018-11	Storage	0.8	---	---	---	0.01	---	---	Tons Product Produced
3-01-018-12	General: Polyethylene (Low Density)	---	0.66	---	---	---	---	---	Tons Product Produced
3-01-018-14	Extruder	---	---	---	---	66	---	---	Tons Product Produced
3-01-018-17	General	---	---	---	---	See App. C	---	---	Tons Product Produced
3-01-018-19	Solvent Recovery	---	---	---	---	3.2	---	---	Tons Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Chemical Manufacturing**

**Industrial Processes: Chemical Manufacturing - Plastics Production - SIC 2821**

3-01-018-21	Extruding/Pelletizing/Conveying/Storage	---	---	---	---	0.3	---	---	Tons Product Produced
3-01-018-27	Polyamide Resins	---	---	---	1	---	---	---	Tons Product Produced
3-01-018-32	Urea-Formaldehyde Resins	---	---	---	---	14.7	---	---	Tons Product Produced
3-01-018-42	Melamine Resins	---	---	---	---	50	---	---	Tons Product Produced
3-01-018-47	Epoxy Resins	---	---	---	---	5.1	---	---	Tons Product Produced
3-01-018-49	Acrylonitrile-Butadiene-Styrene (ABS) Resin	---	---	---	---	60	---	---	Tons Product Produced
3-01-018-70	Reactor (Polyether Resins)	---	---	---	---	50	---	---	Tons Product Produced
3-01-018-80	Reactor (Polyurethane)	---	---	---	---	52	---	---	Tons Product Produced
3-01-018-92	Separation Processes	---	---	---	---	2	---	---	Tons Product Produced
3-01-018-99	Others Not Specified	See App. C	---	---	---	See App. C	---	---	Tons Product Produced

**Industrial Processes: Chemical Manufacturing - Phthalic Anhydride - SIC 2865**

3-01-019-01	o-Xylene Oxidation: Main Process Stream	138	130	94	---	---	301	---	Tons Phthalic Anhydride Produced
3-01-019-02	o-Xylene Oxidation: Pre-Treatment	13	12.2	---	---	---	---	---	Tons Phthalic Anhydride Produced
3-01-019-04	o-Xylene Oxidation: Distillation	89	83.7	---	---	2.4	---	---	Tons Phthalic Anhydride Produced
3-01-019-05	Naphthalene Oxidation: Main Process Stream	56	52.6	---	---	---	100	---	Tons Phthalic Anhydride Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Phthalic Anhydride - SIC 2865</u></b>									
3-01-019-06	Naphthalene Oxidation: Pre-Treatment	5	4.7	---	---	---	---	---	Tons Phthalic Anhydride Produced
3-01-019-07	Naphthalene Oxidation: Distillation	38	---	---	---	10	---	---	Tons Phthalic Anhydride Produced
<b><u>Industrial Processes: Chemical Manufacturing - Printing Ink Manufacture - SIC 2893</u></b>									
3-01-020-01	Vehicle Cooking: General	---	---	---	---	120	---	---	Tons Material Produced
3-01-020-02	Vehicle Cooking: Oils	---	---	---	---	40	---	---	Tons Material Produced
3-01-020-03	Vehicle Cooking: Oleoresin	---	---	---	---	150	---	---	Tons Material Produced
3-01-020-04	Vehicle Cooking: Alkyds	---	---	---	---	160	---	---	Tons Material Produced
3-01-020-05	Pigment Mixing	2	1.7	---	---	6.2	---	---	Tons Pigment Produced
<b><u>Industrial Processes: Chemical Manufacturing - Sodium Carbonate - SIC 2812</u></b>									
3-01-021-02	Solvay Process: Handling	50	10.5	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-04	Monohydrate Process: Rotary Ore Calciner: Gas-fired	368	24.7	---	---	---	---	---	Tons Ore Processed
3-01-021-05	Monohydrate Process: Rotary Ore Calciner: Coal-fired	390	37.1	0.01	1.4	---	---	---	Tons Ore Processed
3-01-021-06	Rotary Soda Ash Dryers	84	17.6	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-07	Fluid-bed Soda Ash Dryers/Coolers	146	19	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-12	Rotary Pre-dryer	3.1	5.2	---	---	---	---	---	Tons Dry NaHCO3 Fed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Sodium Carbonate - SIC 2812</u></b>									
3-01-021-13	Bleacher: Gas-fired	311	7.8	---	---	---	---	---	Tons Dry Material Fed
3-01-021-14	Rotary Dryer: Steam Tube	67	14	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-21	Ore Crushing and Screening	---	7 3.5	---	---	---	---	---	Tons Ore Processed
3-01-021-22	Soda Ash Storage: Loading and Unloading	---	7 5.2	---	---	---	---	---	Tons Material Produced
3-01-021-23	Ore Mining	---	7 3.3	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-24	Ore Transfer	---	7 0.2	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-25	Sesquicarbonate Process: Rotary Calciner	---	7 72	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-26	Sesquicarbonate Process: Fluid-bed Calciner	---	7 4.3	---	---	---	---	---	Tons Sodium Carbonate Produced
3-01-021-27	Soda Ash Screening	---	7 19	---	---	---	---	---	Tons Sodium Carbonate Produced
<b><u>Industrial Processes: Chemical Manufacturing - Sulfuric Acid (Contact Process) - SIC 2819</u></b>									
3-01-023-01	Absorber/@ 99.9% Conversion	---	---	1.4	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-04	Absorber/@ 99.5% Conversion	---	---	7	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-06	Absorber/@ 99.0% Conversion	---	---	14	0.004	---	---	---	Tons 100% Sulfuric Acid Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Sulfuric Acid (Contact Process) - SIC 2819</u></b>									
3-01-023-08	Absorber/@ 98.0% Conversion	---	---	27	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-10	Absorber/@ 97.0% Conversion	---	---	40	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-12	Absorber/@ 96.0% Conversion	---	---	55	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-14	Absorber/@ 95.0% Conversion	---	---	70	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-16	Absorber/@ 94.0% Conversion	---	---	82	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-18	Absorber/@ 93.0% Conversion	---	---	96	0.004	---	---	---	Tons 100% Sulfuric Acid Produced
3-01-023-20	Tank Car and Truck Unloading	---	---	0.1	---	---	---	---	Tons 100% Sulfuric Acid Loaded
3-01-023-21	Storage Tank Vent	---	---	0.1	---	---	---	---	Tons 100% Sulfuric Acid Stored
<b><u>Industrial Processes: Chemical Manufacturing - Synthetic Organic Fiber Manufacturing - SIC 2824</u></b>									
3-01-024-01	Nylon #6: Staple (Uncontrolled)	---	0.01	---	---	4.3	---	---	Tons Fiber Produced
3-01-024-02	Polyesters: Staple	0.06	33.3	---	---	See App. C	---	---	Tons Fiber Produced
3-01-024-10	Acrylic: Uncontrolled	---	---	---	---	See App. C	---	---	Tons Product Produced
3-01-024-14	Polyolefin: Melt Spun	---	0.01	---	---	74.2	---	---	Tons Product Produced
3-01-024-16	Aramid	---	---	---	---	4.3	---	---	Tons Product Produced
3-01-024-99	Other Not Classified	See App. C	---	---	---	See App. C	---	---	Tons Material Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Cellulosic Fiber Production - SIC 2823</u></b>									
3-01-025-05	Cellulose Acetate: Filer Tow	---	---	---	---	290	---	---	Tons Fiber Produced
<b><u>Industrial Processes: Chemical Manufacturing - Synthetic Rubber (Manufacturing Only) - SIC 2822</u></b>									
3-01-026-01	General	---	---	---	---	5.2	---	---	Tons Product Produced
3-01-026-09	Dryers	---	---	---	---	5.02	---	---	Tons Product Produced
3-01-026-13	Monomer Recovery: Absorber Vent	---	---	---	---	0.52	---	---	Tons Product Produced
3-01-026-14	Blending Tanks	---	---	---	---	0.84	---	---	Tons Product Produced
3-01-026-16	Latex: Monomer Removal	---	---	---	---	16.9	---	---	Tons Product Produced
3-01-026-17	Latex: Blending Tank	---	---	---	---	0.2	---	---	Tons Product Produced
<b><u>Industrial Processes: Chemical Manufacturing - Ammonium Nitrate Production - SIC 2873</u></b>									
3-01-027-04	Neutralizer	0.09 - 8.6	4.35	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-05	Granulator **	0.4	---	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-06	Dryers and Coolers **	7	---	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-07	Rotary Drum Granulator	392	5.8	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-08	Pan Granulator	2.68	0.05	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-09	Bulk Loading (General)	< 0.02	0.02	---	---	---	---	---	Tons Ammonium Nitrate Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Ammonium Nitrate Production - SIC 2873</u></b>									
3-01-027-10	Bagging of Product	0.19	0.16	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-11	Neutralizer: High Density	4.35	4.35	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-12	Prilling Tower: High Density	3.18	3	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-13	High Density Dryers and Coolers (scb**	0.1	---	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-14	Prilling Cooler: High Density	1.6	0.01	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-17	Evaporator/Concentrator: High Density	0.52	0.49	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-18	Coating: High Density	< 4	3.4	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-21	Neutralizer: Low Density	4.35	4.35	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-22	Prilling Tower: Low Density	0.92	0.8	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-23	Low Density Dryers and Coolers (scb**	0.08	---	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-24	Prilling Cooler: Low Density	51.6	0.2	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-25	Prilling Dryer: Low Density	1.144	0.2	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-27	Evaporator/Concentrator: Low Density	0.52	0.49	---	---	---	---	---	Tons Ammonium Nitrate Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Ammonium Nitrate Production - SIC 2873</u></b>									
3-01-027-28	Coating: Low Density	4	3.4	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-29	Rotary Drum Granulator Coolers	16.2	0.5	---	---	---	---	---	Tons Ammonium Nitrate Produced
3-01-027-30	Pan Granulator Coolers	36.6	0.5	---	---	---	---	---	Tons Ammonium Nitrate Produced
<b><u>Industrial Processes: Chemical Manufacturing - Normal Superphosphates - SIC 2874</u></b>									
3-01-028-01	Grinding/Drying	---	4.6	---	---	---	---	---	Tons Product Produced
3-01-028-03	Rock Unloading	0.56	0.29	---	---	---	---	---	Tons P2O5 Produced
3-01-028-04	Rock Feeder System	0.11	0.06	---	---	---	---	---	Tons P2O5 Produced
3-01-028-05	Mixer/Den	0.52	0.27	---	---	---	---	---	Tons P2O5 Produced
3-01-028-06	Curing/Building	7.2	6.1	---	---	---	---	---	Tons P2O5 Produced
<b><u>Industrial Processes: Chemical Manufacturing - Triple Superphosphate - SIC 2874</u></b>									
3-01-029-03	Rock Unloading	0.14	0.07	---	---	---	---	---	Tons P2O5 Produced
3-01-029-04	Rock Feeder System	0.03	0.02	---	---	---	---	---	Tons P2O5 Produced
3-01-029-05	Run of Pile: Mixer/Den/Curing	0.03	0.02	---	---	---	---	---	Tons P2O5 Produced
3-01-029-06	Granulator: Reactor/Dryer	0.1	0.05	---	---	---	---	---	Tons P2O5 Produced
3-01-029-07	Granulator: Curing	0.2	0.1	---	---	---	---	---	Tons P2O5 Produced
3-01-029-22	Curing	---	---	---	---	---	---	---	Tons Fertilizer Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Ammonium Phosphates - SIC 2874</u></b>									
3-01-030-01	Dryers and Coolers	1.5	1.3	3.1	1.7	0.03	---	---	Tons P2O5 Produced
3-01-030-02	Ammoniator/Granulator	1.52	1.3	0.3	---	---	---	---	Tons P2O5 Produced
3-01-030-03	Screening/Transfer	0.06	---	---	---	---	---	---	Tons P2O5 Produced
3-01-030-24	Dryer	---	---	---	---	---	---	---	Tons Fertilizer Granulated
3-01-030-25	Cooler	---	---	---	---	---	---	---	Tons Fertilizer Granulated
3-01-030-99	Other Not Classified	---	---	---	---	---	---	---	Tons Produced
<b><u>Industrial Processes: Chemical Manufacturing - Terephthalic Acid/Dimethyl Terephthalate - SIC 2869</u></b>									
3-01-031-02	Reactor Vent	---	---	---	---	30	34	---	Tons Material Produced
3-01-031-03	Crystallization, Separation, and Drying Vent	---	---	---	---	3.8	---	---	Tons Material Produced
3-01-031-04	Distillation and Recovery Vent	---	---	---	---	2.2	---	---	Tons Material Produced
3-01-031-05	Product Transfer Vent	---	---	---	---	3.6	4	---	Tons Material Produced
3-01-031-80	Fugitive Emissions	---	---	---	---	294400	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Elemental Sulfur Production - SIC 2819</u></b>									
3-01-032-01	Mod. Claus: 2 Stage w/o Control (92-95% Removal)	---	---	280	0.35	3	---	---	Tons 100% Sulfur Produced
3-01-032-02	Mod. Claus: 3 Stage w/o Control (95-96% Removal)	---	---	189	0.1	9.1	---	---	Tons 100% Sulfur Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Elemental Sulfur Production - SIC 2819</u></b>									
3-01-032-03	Mod. Claus: 4 Stage w/o Control (96-97% Removal)	---	---	145	0.1	---	---	---	Tons 100% Sulfur Produced
3-01-032-04	Sulfur Removal Process (99.9% Removal)	---	---	---	0.1	0.05	---	---	Tons 100% Sulfur Produced
3-01-032-99	Other Not Classified	---	---	---	---	---	---	---	Tons Product
<b><u>Industrial Processes: Chemical Manufacturing - Pesticides - SIC 2879</u></b>									
3-01-033-01	Malathion	---	---	---	---	0.01	---	---	Hallons Product Produced
<b><u>Industrial Processes: Chemical Manufacturing - Aniline/Ethanolamines - SIC 2869</u></b>									
3-01-034-02	General: Aniline	---	---	---	---	0.2	---	---	Tons Material Produced
<b><u>Industrial Processes: Chemical Manufacturing - Inorganic Pigments - SIC 2816</u></b>									
3-01-035-01	TiO2 Sulfate Process: Calciner	---	27.6	---	---	---	---	---	Tons Material Produced
3-01-035-02	TiO2 Sulfate Process: Digester	---	---	3.6	---	---	---	---	Tons Material Produced
3-01-035-06	Lead Oxide: Barton Pot	0.43 - 0.85	0.64	---	---	---	---	0.44	Tons Material Produced
3-01-035-07	Lead Oxide: Calciner	14.27	15	---	---	---	---	14	Tons Material Produced
3-01-035-10	Red Lead	1	1	---	---	---	---	0.9	Tons Material Produced
3-01-035-15	White Lead	---	0.69	---	---	---	---	0.55	Tons Material Produced
3-01-035-20	Lead Chromate	---	0.2	---	---	---	---	0.13	Tons Material Produced
3-01-035-51	Ore Dryer	---	6.9	---	---	---	---	---	Tons Material Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Hydrogen Cyanide - SIC 2819</u></b>									
3-01-039-01	Air Heater: General	---	---	---	---	14	---	---	Tons Hydrogen Cyanide Produced
<b><u>Industrial Processes: Chemical Manufacturing - Urea Production - SIC 2873</u></b>									
3-01-040-02	Solution Concentration (Controlled)	0.021	0.011	---	---	---	---	---	Tons Urea Produced
3-01-040-03	Prilling	3.8	3.57	---	---	---	---	---	Tons Urea Produced
3-01-040-04	Drum Granulation	241	4.82	---	---	0.009	---	---	Tons Urea Produced
3-01-040-05	Coating	4	3.4	---	---	---	---	---	Tons Urea Produced
3-01-040-06	Bagging	0.19	0.16	---	---	---	---	---	Tons Urea Produced
3-01-040-07	Bulk Loading	0.02	0.017	---	---	---	---	---	Tons Urea Produced
3-01-040-08	Non-fluidized Bed Prilling (Agricultural Grade)	3.8	---	---	---	---	---	---	Tons Urea Produced
3-01-040-09	Non-fluidized Bed Prilling (Feed Grade)	3.6	---	---	---	---	---	---	Tons Urea Produced
3-01-040-10	Fluidized Bed Prilling (Agricultural Grade)	6.2	---	---	---	0.02	---	---	Tons Urea Produced
3-01-040-11	Fluidized Bed Prilling (Feed Grade)	3.6	---	---	---	0.004	---	---	Tons Urea Produced
3-01-040-12	Rotary Drum Cooler	7.78	---	---	---	---	---	---	Tons Urea Produced
<b><u>Industrial Processes: Chemical Manufacturing - Lead Alkyl Manufacturing (Sodium/Lead Alloy Process) - SIC 2869</u></b>									
3-01-042-01	Recovery Furnace	59.3	59.3	---	2.67	---	---	55	Tons Material Produced
3-01-042-02	Process Vents: Tetraethyl Lead	---	---	---	---	---	---	4	Tons Material Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Lead Alkyl Manufacturing (Sodium/Lead Alloy Process) - SIC 2869</u></b>									
3-01-042-03	Process Vents: Tetramethyl Lead	---	---	---	---	---	---	150	Tons Material Produced
3-01-042-04	Sludge Pits	---	1.9	---	---	---	---	1.2	Tons Material Produced
<b><u>Industrial Processes: Chemical Manufacturing - Lead Alkyl Manufacturing (Electrolytic Process) - SIC 2869</u></b>									
3-01-043-01	General	---	---	---	---	---	---	1	Tons Material Produced
<b><u>Industrial Processes: Chemical Manufacturing - Acetone/Ketone Production - SIC 2869</u></b>									
3-01-091-05	Methyl Ethyl Ketone	---	---	---	---	2.4	---	---	Tons Material Produced
3-01-091-80	Acetone: Fugitive Emissions	---	---	---	---	452000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Maleic Anhydride - SIC 2865</u></b>									
3-01-100-02	Product Recovery Absorber	---	---	---	---	174	---	---	Tons Maleic Anhydride Produced
3-01-100-03	Vacuum System Vent	---	---	---	---	0.2	---	---	Tons Maleic Anhydride Produced
3-01-100-04	Briquetting	---	---	---	---	2.5	---	---	Tons Maleic Anhydride Produced
3-01-100-05	Secondary Sources: Dehydration Column, Vacuum System	---	---	---	---	0.2	---	---	Tons Maleic Anhydride Produced
3-01-100-80	Fugitive Emissions	---	---	---	---	62300	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Boric Acid - SIC 2800</u></b>									
3-01-113-01	Dryer	---	0.58	---	---	---	---	---	Tons Material Dried

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Potassium Chloride - SIC 2800</u></b>									
3-01-114-01	Dryer	---	2.68	---	---	---	---	---	Tons Potassium Chloride Produced
<b><u>Industrial Processes: Chemical Manufacturing - Formaldehyde, Acrolein, Acetaldehyde, Butyraldehyde - SIC 2869</u></b>									
3-01-120-01	Formaldehyde: Silver Catalyst	---	---	---	---	13	36	---	Tons Material Produced
3-01-120-02	Formaldehyde: Mixed Oxide Catalyst	---	---	---	---	16	---	---	Tons Material Produced
3-01-120-07	Formaldehyde: Fugitive Emissions	---	---	---	---	35700	---	---	Each-Year Process Unit Operating
3-01-120-11	Acetaldehyde from Ethylene	---	---	---	---	2.8	---	---	Tons Product Produced
3-01-120-12	Acetaldehyde from Ethanol	---	---	---	---	0.04	5.5	---	Tons Product Produced
3-01-120-13	Acetaldehyde: Off-air Absorber Vent	---	---	---	---	4.5	---	---	Tons Product Produced
3-01-120-14	Acetaldehyde: Off-gas Absorber Vent	---	---	---	---	5.6	---	---	Tons Product Produced
3-01-120-17	Acetaldehyde: Fugitive Emissions	---	---	---	---	165000	---	---	Each-Year Process Unit Operating
3-01-120-31	Acrolein: CO2 Stripping Tower	---	---	---	---	120	---	---	Tons Product Produced
3-01-120-32	Acrolein: Aqueous Acrolein Receiver	---	---	---	---	6	---	---	Tons Product Produced
3-01-120-33	Acrolein: Distillation System	---	---	---	---	15	---	---	Tons Product Produced
3-01-120-34	Acrolein: Refrigeration Unit	---	---	---	---	54	---	---	Tons Product Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Chloroprene - SIC 2869</u></b>									
3-01-124-01	General	---	---	---	---	11.17	---	---	Tons Chloroprene Produced
3-01-124-02	Butadiene Dryer	---	---	---	---	2.4	---	---	Tons Chloroprene Produced
3-01-124-03	Chlorination Reactor	---	---	---	---	0.47	---	---	Tons Chloroprene Produced
3-01-124-04	Dichlorobutene Still	---	---	---	---	7.8	---	---	Tons Chloroprene Produced
3-01-124-05	Isomerization and 3,4-DCB Recovery Vent	---	---	---	---	0.3	---	---	Tons Chloroprene Produced
3-01-124-06	Chloroprene Stripper	---	---	---	---	0.3	---	---	Tons Chloroprene Produced
3-01-124-07	Brine Stripper	---	---	---	---	0.3	---	---	Tons Chloroprene Produced
<b><u>Industrial Processes: Chemical Manufacturing - Chlorine Derivatives - SIC 2869</u></b>									
3-01-125-09	Ethylene Dichloride: Fugitive Emissions	---	---	---	---	182000	---	---	Each-Year Process Unit Operating
3-01-125-10	Chloromethanes: General	---	---	---	---	12.3	---	---	Tons Material Produced
3-01-125-11	Chloromethanes: Recycled Methane Inert-purge	---	---	---	---	4.2	---	---	Tons Product Produced
3-01-125-12	Chloromethanes: Drying Bed Regeneration Vent	---	---	---	---	0.1	---	---	Tons Product Produced
3-01-125-14	Chloromethanes: Fugitive Emissions	---	---	---	---	482000	---	---	Each-Year Process Unit Operating
3-01-125-20	Perchloroethylene: General	---	---	---	---	2.7	---	---	Tons Material Produced
3-01-125-21	Perchloroethylene: Distillation Vent	---	---	---	---	0.8	---	---	Tons Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Chlorine Derivatives - SIC 2869</u></b>									
3-01-125-24	Perchloroethylene: Fugitive Emissions	---	---	---	---	365000	---	---	Each-Year Process Unit Operating
3-01-125-25	Trichloroethane: General	---	---	---	---	5.2	---	---	Tons Material Produced
3-01-125-26	Trichloroethane: HCl Absorber Vent	---	---	---	---	0.2	---	---	Tons Product Produced
3-01-125-28	Trichloroethane: Distillation Column Vent	---	---	---	---	0.38	---	---	Tons Product Produced
3-01-125-29	Trichloroethane: Fugitive Emissions	---	---	---	---	77400	---	---	Each-Year Process Unit Operating
3-01-125-30	Trichloroethylene: General	---	---	---	---	1.3	---	---	Tons Material Produced
3-01-125-34	Trichloroethylene: Fugitive Emissions	---	---	---	---	365000	---	---	Each-Year Process Unit Operating
3-01-125-40	Vinyl Chloride: General	---	---	---	---	6.5	---	---	Tons Material Produced
3-01-125-42	Vinyl Chloride: HCl Recovery	0.2	---	---	---	0.2	---	---	Tons Product Produced
3-01-125-43	Vinyl Chloride: Light-ends Recovery	---	---	---	---	2	---	---	Tons Product Produced
3-01-125-44	Dichloroethane: Drying Column	---	---	---	---	1	---	---	Tons Product Produced
3-01-125-45	Vinyl Chloride Monomer: Drying Column	---	---	---	---	1	---	---	Tons Product Produced
3-01-125-50	Vinyl Chloride: Fugitive Emissions	---	---	---	---	274000	---	---	Each-Year Process Unit Operating
3-01-125-52	Vinylidene Chloride: Dehydrochlorination Reactor	---	---	---	---	12.4	---	---	Tons Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Chlorine Derivatives - SIC 2869</u></b>									
3-01-125-53	Vinylidene Chloride: Distillation Column Vent	---	---	---	---	1.4	---	---	Tons Product Produced
3-01-125-55	Vinylidene Chloride: Fugitive Emissions	---	---	---	---	19000	---	---	Each-Year Process Unit Operating
3-01-125-56	Chloromethanes via MH & MCC Processes: Inert-gas Purge Vent	---	---	---	---	3	---	---	Tons Product Produced
3-01-125-57	Chloromethanes via MH & MCC Processes: Methylene Chloride Condenser	---	---	---	---	0.04	---	---	Tons Product Produced
3-01-125-58	Chloromethanes via MH & MCC Processes: Chloroform Condenser	---	---	---	---	0.01	---	---	Tons Product Produced
<b><u>Industrial Processes: Chemical Manufacturing - Fluorocarbons/Chlorofluorocarbons - SIC 2869</u></b>									
3-01-127-01	General	---	---	---	---	14.5	---	---	Tons Material Produced
3-01-127-02	Distillation Column	---	---	---	---	12.7	---	---	Tons Product Produced
3-01-127-20	Chlorofluorocarbon 12/11	---	---	---	---	6.2	---	---	Tons Material Produced
3-01-127-30	Chlorofluorocarbon 23/22	---	---	---	---	38	---	---	Tons Material Produced
3-01-127-40	Chlorofluorocarbon 113/114	---	---	---	---	13.2	---	---	Tons Material Produced
<b><u>Industrial Processes: Chemical Manufacturing - Ammonium Sulfate (Use 3-01-210 for Caprolactum Production) - SIC 2873</u></b>									
3-01-130-04	Caprolactum By-product: Rotary Dryer	46	---	---	---	1.48	---	---	Tons Product Produced
3-01-130-05	Caprolactum By-product: Fluid Bed Dryer	218	21.8	---	---	1.48	---	---	Tons Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Organic Acid Manufacturing - SIC 2869</u></b>									
3-01-132-01	Acetic Acid via Methanol	---	---	---	0.06	4	---	---	Tons Material Produced
3-01-132-05	Acetic Acid via Butane	---	---	---	0.08	14	27.1	---	Tons Material Produced
3-01-132-10	Acetic Acid via Acetaldehyde	---	---	---	---	22	---	---	Tons Material Produced
3-01-132-21	General: Acrylic Acid	---	---	---	---	240	---	---	Tons Product Produced
3-01-132-22	Quench Absorber	---	---	---	---	238.6	---	---	Tons Product Produced
3-01-132-23	Extraction Column	---	---	---	---	0.29	---	---	Tons Product Produced
3-01-132-24	Vacuum System	---	---	---	---	7.6	---	---	Tons Product Produced
<b><u>Industrial Processes: Chemical Manufacturing - Acetic Anhydride - SIC 2869</u></b>									
3-01-133-01	General	---	---	---	---	5.5	9.9	---	Tons Acetic Anhydride Produced
3-01-133-02	Reactor By-product Gas Vent	---	---	---	---	9	14	---	Tons Acetic Anhydride Produced
3-01-133-03	Distillation Column Vent	---	---	---	---	1.4	---	---	Tons Acetic Anhydride Produced
<b><u>Industrial Processes: Chemical Manufacturing - Acetylene Production - SIC 2813</u></b>									
3-01-140-04	Waste Handling	---	---	---	13.5	9.3	---	---	Tons Material Throughput
<b><u>Industrial Processes: Chemical Manufacturing - Butadiene - SIC 2869</u></b>									
3-01-153-10	Houdry Process: Total	---	---	---	---	23	---	---	Tons Butadiene Produced
3-01-153-11	Houdry Process: Flue Gas Vent	---	---	---	---	0.1	---	---	Tons Butadiene Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Chemical Manufacturing**

**Industrial Processes: Chemical Manufacturing - Butadiene - SIC 2869**

3-01-153-12	Houdry Process: Dehydrogenation Reactor	---	---	---	---	6.6	---	---	Tons Butadiene Produced
3-01-153-20	n-Butene Process: Total	---	---	---	---	23.2	---	---	Tons Butadiene Produced
3-01-153-21	n-Butene Process: Flue Gas Vent	---	---	---	---	0.1	---	---	Tons Butadiene Produced
3-01-153-22	n-Butene Process: Hydrocarbon Absorber Column	---	---	---	---	10	---	---	Tons Butadiene Produced

**Industrial Processes: Chemical Manufacturing - Cumene - SIC 2865**

3-01-156-01	General	---	---	---	---	1.1	---	---	Tons Cumene Produced
3-01-156-02	Aluminum Chloride Catalyst Process: Benzene Drying Column	---	---	---	---	0.04	---	---	Tons Cumene Produced
3-01-156-03	Aluminum Chloride Catalyst Process: Catalyst Mix Tank Scrubber Vent	---	---	---	---	0.3	---	---	Tons Cumene Produced
3-01-156-04	Aluminum Chloride Catalyst Process: Wash-Decant System Vent	---	---	---	---	0.02	---	---	Tons Cumene Produced
3-01-156-05	Aluminum Chloride Catalyst Process: Benzene Recovery	---	---	---	---	0.03	---	---	Tons Cumene Produced
3-01-156-06	Aluminum Chloride Catalyst Process: Cumene Distillation Vent	---	---	---	---	0.06	---	---	Tons Cumene Produced
3-01-156-07	Aluminum Chloride Catalyst Process: DIPB Stripping Vent	---	---	---	---	0.002	---	---	Tons Cumene Produced
3-01-156-09	Solid Phosphoric Acid Catalyst Process: Cumene Distillation Sys. Vent	---	---	---	---	0.06	---	---	Tons Cumene Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Cumene - SIC 2865</u></b>									
3-01-156-80	Fugitive Emissions	---	---	---	---	149000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Cyclohexane - SIC 2865</u></b>									
3-01-157-02	Blowdown Tank Discharge	---	---	---	---	0.006	---	---	Tons Cyclohexane Produced
3-01-157-03	Pumps/Valves/Compressors	---	---	---	---	1.5	---	---	Tons Cyclohexane Produced
3-01-157-80	Fugitive Emissions	---	---	---	---	240000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Cyclohexanone/Cyclohexanol - SIC 2869</u></b>									
3-01-158-01	General	---	---	---	---	44.4	---	---	Tons Material Produced
3-01-158-02	High Pressure Scrubber Vent	---	---	---	---	33.8	85.2	---	Tons Product Produced
3-01-158-03	Low Pressure Scrubber Vent	---	---	---	---	5.3	19.4	---	Tons Product Produced
3-01-158-21	Hydrogenation Reactor Vent	---	---	---	---	3	---	---	Tons Product Produced
3-01-158-22	Distillation Vent	---	---	---	---	0.12	---	---	Tons Product Produced
3-01-158-80	Fugitive Emissions	---	---	---	---	378000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Vinyl Acetate - SIC 2869</u></b>									
3-01-167-02	Inert-gas Purge Vent	---	---	---	---	8.8	---	---	Tons Vinyl Acetate Produced
3-01-167-03	CO2 Purge Vent	---	---	---	---	0.6	---	---	Tons Vinyl Acetate Produced
3-01-167-04	Inhibitor Mix Tank Discharge	---	---	---	---	5.6	---	---	Tons Vinyl Acetate Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Vinyl Acetate - SIC 2869</u></b>									
3-01-167-80	Fugitive Emissions	---	---	---	---	360000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Ethyl Benzene - SIC 2865</u></b>									
3-01-169-80	Fugitive Emissions	---	---	---	---	328000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Ethylene Oxide - SIC 2869</u></b>									
3-01-174-02	Air Oxidation Process Reactor: Main Vent	---	---	---	---	2	---	---	Tons Ethylene Oxide Produced
3-01-174-10	Oxygen Oxidation Process Reactor: CO2 Purge Vent	---	---	---	---	1.5	---	---	Tons Ethylene Oxide Produced
3-01-174-11	Oxygen Oxidation Process Reactor: Argon Purge Vent	---	---	---	---	0.004	---	---	Tons Ethylene Oxide Produced
3-01-174-21	Stripper Purge Vent	---	---	---	---	0.2	---	---	Tons Ethylene Oxide Produced
3-01-174-80	Fugitive Emissions	---	---	---	---	168000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Glycerin (Glycerol) - SIC 2869</u></b>									
3-01-176-01	General	---	---	---	---	131.6	---	---	Tons Glycerol Produced
3-01-176-11	CO2 Absorber	---	---	---	---	0.8	---	---	Tons Glycerol Produced
3-01-176-12	Evaporator	---	---	---	---	0.2	---	---	Tons Glycerol Produced
3-01-176-13	Concentrator	---	---	---	---	0.2	---	---	Tons Glycerol Produced
3-01-176-14	Stripping Column	---	---	---	---	0.2	---	---	Tons Glycerol Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Chemical Manufacturing**

**Industrial Processes: Chemical Manufacturing - Glycerin (Glycerol) - SIC 2869**

3-01-176-15	Light-ends Stripping Column	---	---	---	---	0.2	---	---	Tons Glycerol Produced
3-01-176-16	Solvent Stripping Column	---	---	---	---	0.04	---	---	Tons Glycerol Produced
3-01-176-17	Product Distillation Column	---	---	---	---	0.2	---	---	Tons Glycerol Produced
3-01-176-18	Cooling Tower	---	---	---	---	5.6	---	---	Tons Glycerol Produced
3-01-176-31	Light-ends Stripper	---	---	---	---	30	---	---	Tons Glycerol Produced
3-01-176-32	Concentrator	---	---	---	---	0.3	---	---	Tons Glycerol Produced
3-01-176-33	Glycerin Flasher Column	---	---	---	---	0.3	---	---	Tons Glycerol Produced
3-01-176-34	Product Distillation Column	---	---	---	---	0.3	---	---	Tons Glycerol Produced

**Industrial Processes: Chemical Manufacturing - Toluene Diisocyanate - SIC 2865**

3-01-181-01	General	---	---	---	---	19.3	---	---	Tons Toluene Diisocyanate Produced
3-01-181-02	Sulfuric Acid Concentrator	---	---	---	---	10	---	---	Tons Toluene Diisocyanate Produced
3-01-181-03	Nitration Reactor	---	---	---	---	0.05	---	---	Tons Toluene Diisocyanate Produced
3-01-181-04	Catalyst Filtration	---	---	---	---	0.001	---	---	Tons Toluene Diisocyanate Produced
3-01-181-05	TDA Vacuum Distillation Vent	---	---	---	---	0.007	---	---	Tons Toluene Diisocyanate Produced
3-01-181-06	Dichlorobenzene Solvent Recovery	---	---	---	---	3	---	---	Tons Toluene Diisocyanate Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Toluene Diisocyanate - SIC 2865</u></b>									
3-01-181-07	TDI Flash Distillation	---	---	---	---	3	---	---	Tons Toluene Diisocyanate Produced
3-01-181-08	TDI Purification	---	---	---	---	3	---	---	Tons Toluene Diisocyanate Produced
<b><u>Industrial Processes: Chemical Manufacturing - Methyl Methacrylate - SIC 2869</u></b>									
3-01-190-02	Acetone Cyanohydrin Reactor Off-gas	---	---	---	---	0.08	---	---	Tons Methyl Methacrylate Produced
3-01-190-03	Recovery Columns	---	---	---	---	2.3	---	---	Tons Methyl Methacrylate Produced
3-01-190-04	Acetone Evaporation Vacuum Vent	---	---	---	---	0.008	---	---	Tons Methyl Methacrylate Produced
3-01-190-10	Hydrolysis Reactor	---	---	---	---	13.2	---	---	Tons Methyl Methacrylate Produced
3-01-190-11	Distillation Unit	---	---	---	---	1.9	---	---	Tons Methyl Methacrylate Produced
3-01-190-12	MMA and Light-ends Distillation Unit	---	---	---	---	16.5	---	---	Tons Methyl Methacrylate Produced
3-01-190-13	Acid Distillation	---	---	---	---	1.1	---	---	Tons Methyl Methacrylate Produced
3-01-190-14	MMA Purification	---	---	---	---	15.8	---	---	Tons Methyl Methacrylate Produced
3-01-190-80	Fugitive Emissions	---	---	---	---	273000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Nitrobenzene - SIC 2865</u></b>									
3-01-195-02	Reactor and Separator Vent	---	---	---	---	1.9	---	---	Tons Nitrobenzene Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Nitrobenzene - SIC 2865</u></b>									
3-01-195-03	Acid Stripper Vent	---	---	---	---	0.34	---	---	Tons Nitrobenzene Produced
3-01-195-04	Washer and Neutralizer Vent	---	---	---	---	0.02	---	---	Tons Nitrobenzene Produced
3-01-195-05	Nitrobenzene Stripper Vent	---	---	---	---	0.34	---	---	Tons Nitrobenzene Produced
3-01-195-80	Fugitive Emissions	---	---	---	---	138000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Butylene, Ethylene, Propylene, Olefin Production - SIC 2869</u></b>									
3-01-197-01	Ethylene: General	0.02	---	6	0.02	---	0.02	---	Tons Material Produced
3-01-197-05	Propylene: General	---	---	---	---	1	---	---	Tons Material Produced
3-01-197-42	Ethylene: Pyrolysis Furnace Decoking	0.02	---	---	---	---	---	---	Tons Product Produced
3-01-197-43	Ethylene: Acid Gas Removal	---	---	6	---	0.02	---	---	Tons Product Produced
3-01-197-45	Ethylene: Compressor Lube Oil Vent	---	---	---	---	0.02	---	---	Tons Product Produced
3-01-197-49	Ethylene: Fugitive Emissions	---	---	---	---	695000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Phenol - SIC 2865</u></b>									
3-01-202-01	General	---	---	---	---	15.4	---	---	Tons Phenol Produced
3-01-202-02	Cumene Oxidation	---	---	---	---	4.6	---	---	Tons Phenol Produced
3-01-202-03	CHP Concentrator	---	---	---	---	2.4	---	---	Tons Phenol Produced
3-01-202-04	Light-ends Distillation Vent	---	---	---	---	0.6	---	---	Tons Phenol Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Chemical Manufacturing**

**Industrial Processes: Chemical Manufacturing - Phenol - SIC 2865**

3-01-202-05	Acetone Finishing	---	---	---	---	1.3	---	---	Tons Phenol Produced
3-01-202-06	Phenol Distillation Column	---	---	---	---	7.6	---	---	Tons Phenol Produced
3-01-202-10	Oxidate Wash/Separation	---	---	---	---	0.16	---	---	Tons Phenol Produced
3-01-202-11	CHP Cleavage Vent	---	---	---	---	0.95	---	---	Tons Phenol Produced
3-01-202-80	Fugitive Emissions	---	---	---	---	729000	---	---	Each-Year Process Unit Operating

**Industrial Processes: Chemical Manufacturing - Propylene Oxide - SIC 2869**

3-01-205-03	Vent Gas Scrubber Vent	---	---	---	---	20.5	---	---	Tons Propylene Oxide Produced
3-01-205-04	Saponification Column Vent	---	---	---	---	0.09	---	---	Tons Propylene Oxide Produced
3-01-205-05	PO Stripping Column Vent	---	---	---	---	0.01	---	---	Tons Propylene Oxide Produced
3-01-205-06	Light-ends Stripping Column Vent	---	---	---	---	0.01	---	---	Tons Propylene Oxide Produced
3-01-205-07	PO Final Distillation Column Vent	---	---	---	---	0.01	---	---	Tons Propylene Oxide Produced
3-01-205-08	DCP Distillation Column Vent	---	---	---	---	0.0002	---	---	Tons Propylene Oxide Produced
3-01-205-21	Oxidation Reactor Scrubber Vent	---	---	---	---	3.5	---	---	Tons Propylene Oxide Produced
3-01-205-22	TBA Stripping Column Vent	---	---	---	---	0.008	---	---	Tons Propylene Oxide Produced
3-01-205-24	PO Stripping Column Vent	---	---	---	---	0.04	---	---	Tons Propylene Oxide Produced
3-01-205-25	Crude TBA Recovery Column Vent	---	---	---	---	0.03	---	---	Tons Propylene Oxide Produced
3-01-205-26	TBA Wash-Decant System Vent	---	---	---	---	0.01	---	---	Tons Propylene Oxide Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Propylene Oxide - SIC 2869</u></b>									
3-01-205-27	Wastewater Stripping Column Vent	---	---	---	---	4.56	---	---	Tons Propylene Oxide Produced
3-01-205-28	Solvent Scrubber Vent	---	---	---	---	1.3	---	---	Tons Propylene Oxide Produced
3-01-205-29	Solvent Recovery Column Vent	---	---	---	---	0.0009	---	---	Tons Propylene Oxide Produced
3-01-205-30	Water Stripping Column Vent	---	---	---	---	0.003	---	---	Tons Propylene Oxide Produced
3-01-205-31	Propylene Glycol and Dipropylene Glycol Combined Vent	---	---	---	---	0.1	---	---	Tons Propylene Oxide Produced
3-01-205-32	Flue Gas Vent	---	---	---	---	0.08	---	---	Tons Propylene Oxide Produced
3-01-205-41	Oxidation Reactor Scrubber Vent	---	---	---	---	3.2	---	---	Tons Propylene Oxide Produced
3-01-205-42	Falling Film Evaporator Vent	---	---	---	---	0.01	---	---	Tons Propylene Oxide Produced
3-01-205-44	Separation Column Vent	---	---	---	---	0.3	---	---	Tons Propylene Oxide Produced
3-01-205-45	Light-ends Stripping Column Vent	---	---	---	---	0.3	---	---	Tons Propylene Oxide Produced
3-01-205-46	Propylene Recovery Column Vent	---	---	---	---	0.3	---	---	Tons Propylene Oxide Produced
3-01-205-47	Product Wash-Decant System Vent	---	---	---	---	0.001	---	---	Tons Propylene Oxide Produced
3-01-205-48	Mixed Hydrocarbon Wash-Decant System Vent	---	---	---	---	0.003	---	---	Tons Propylene Oxide Produced
3-01-205-49	Ethyl Benzene Wash-Decant System Vent	---	---	---	---	0.003	---	---	Tons Propylene Oxide Produced
3-01-205-50	Ethyl Benzene Stripping Column Vent	---	---	---	---	0.003	---	---	Tons Propylene Oxide Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Chemical Manufacturing**

**Industrial Processes: Chemical Manufacturing - Propylene Oxide - SIC 2869**

3-01-205-51	Light-hydrocarbon Stripping Column Vent	---	---	---	---	0.003	---	---	Tons Propylene Oxide Produced
3-01-205-52	MBA-AP Stripping Column Vent	---	---	---	---	0.02	---	---	Tons Propylene Oxide Produced
3-01-205-53	Dehydration Reactor System Vent	---	---	---	---	0.002	---	---	Tons Propylene Oxide Produced
3-01-205-54	Light-impurities Stripping Column Vent	---	---	---	---	2.5	---	---	Tons Propylene Oxide Produced
3-01-205-55	Styrene Finishing Column Vent	---	---	---	---	1.7	---	---	Tons Propylene Oxide Produced

**Industrial Processes: Chemical Manufacturing - Styrene - SIC 2865**

3-01-206-01	General	0.02	---	---	0.04	---	---	---	Tons Styrene Produced
3-01-206-80	Fugitive Emissions	---	---	---	---	248000	---	---	Each-Year Process Unit Operating

**Industrial Processes: Chemical Manufacturing - Caprolactum (Use 3-01-130 for Ammonium Sulfate By-product Production) - SIC 2869**

3-01-210-01	General	---	---	---	---	11.9	---	---	Tons Product Produced
3-01-210-02	Cyclohexanone Purification Vent	---	---	---	---	6.2	---	---	Tons Product Produced
3-01-210-05	Neutralization Reactor Vent	---	---	---	---	0.08	---	---	Tons Product Produced
3-01-210-06	Solvent Separation/Recovery	---	---	---	---	4	---	---	Tons Product Produced
3-01-210-07	Oximation Reactor/Separator	---	---	---	---	0.05	---	---	Tons Product Produced
3-01-210-08	Caprolactum Purification	---	---	---	---	0.3	---	---	Tons Product Produced
3-01-210-09	Ammonium Sulfate Drying ** (Use 3-01-130-04 or 3-01-130-05)	---	---	---	---	1.2	---	---	Tons Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Caprolactum (Use 3-01-130 for Ammonium Sulfate By-product Production) - SIC 2869</u></b>									
3-01-210-10	AS:Cool/Screen/Storage**(Use 301130-06&07,301870-25&26,301875-25&26)	---	---	---	---	0.1	---	---	Tons Product Produced
<b><u>Industrial Processes: Chemical Manufacturing - Linear Alkylbenzene - SIC 2869</u></b>									
3-01-211-03	Hydrogen Fluoride Scrubber Vent	---	---	---	---	0.022	---	---	Tons Linear Alkylbenzene Produced
3-01-211-04	Vacuum Refining	---	---	---	---	0.2	---	---	Tons Linear Alkylbenzene Produced
3-01-211-22	Parafin Drying Column Vent	---	---	---	---	0.0056	---	---	Tons Linear Alkylbenzene Produced
3-01-211-23	HCl Absorber Vent	---	---	---	---	0.5	---	---	Tons Linear Alkylbenzene Produced
3-01-211-24	Atmospheric Wash-Decant Vent	---	---	---	---	0.025	---	---	Tons Linear Alkylbenzene Produced
3-01-211-25	Benzene Stripping Column	---	---	---	---	0.0074	---	---	Tons Linear Alkylbenzene Produced
<b><u>Industrial Processes: Chemical Manufacturing - Methanol/Alcohol Production - SIC 2869</u></b>									
3-01-250-02	Methanol: Purge Gas Vent	---	---	---	---	2.2	---	---	Tons Product Produced
3-01-250-03	Methanol: Distillation Vent	---	---	---	---	0.8	---	---	Tons Product Produced
3-01-250-04	Methanol: Fugitive Emissions	---	---	---	---	573000	---	---	Each-Year Process Unit Operating
3-01-250-10	Ethanol by Fermentation	---	---	---	---	1.9	---	---	Tons Material Produced
3-01-250-20	Alcohols by Oxo Process	0.006	---	---	0.08	---	22.5	---	Tons Material Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Ethylene Glycol - SIC 2869</u></b>									
3-01-251-01	General	---	---	---	---	10.3	---	---	Tons Ethylene Glycol Produced
3-01-251-80	Fugitive Emissions	---	---	---	---	24000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Etherene Production - SIC 2869</u></b>									
3-01-252-01	General	---	---	---	---	0.16	---	---	Tons Etherene Produced
<b><u>Industrial Processes: Chemical Manufacturing - Glycol Ethers - SIC 2869</u></b>									
3-01-253-02	Vacuum System Vent	---	---	---	---	0.03	---	---	Tons Glycol Ethers Produced
3-01-253-05	Catalyst: Methanol Mix Tank	---	---	---	---	0.02	---	---	Tons Glycol Ethers Produced
3-01-253-06	Methanol Recovery Column Vent	---	---	---	---	0.3	---	---	Tons Glycol Ethers Produced
3-01-253-15	Catalyst: Ethanol Mix Tank	---	---	---	---	0.01	---	---	Tons Glycol Ethers Produced
3-01-253-16	Ethanol Recovery Column Vent	---	---	---	---	0.19	---	---	Tons Glycol Ethers Produced
3-01-253-25	Catalyst: Butanol Mix Tank	---	---	---	---	0.002	---	---	Tons Glycol Ethers Produced
3-01-253-26	Butanol Recovery Column Vent	---	---	---	---	0.03	---	---	Tons Glycol Ethers Produced
3-01-253-30	Secondary Emissions: Handling and Disposal of Process Waste Streams	---	---	---	---	0.06	---	---	Tons Glycol Ethers Produced
3-01-253-80	Fugitive Emissions	---	---	---	---	20100	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Nitriles, Acrylonitrile, Adiponitrile Production - SIC 2869</u></b>									
3-01-254-01	Acetonitrile	---	---	---	---	497	---	---	Tons Material Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Nitriles, Acrylonitrile, Adiponitrile Production - SIC 2869</u></b>									
3-01-254-05	General: Acrylonitrile	---	---	---	---	220	---	---	Tons Material Produced
3-01-254-06	Absorber Vent: Normal	---	---	---	---	200	---	---	Tons Product Produced
3-01-254-07	Absorber Vent: Startup	---	---	---	---	0.5	---	---	Tons Product Produced
3-01-254-08	Recovery/Purification Column Vent	---	---	---	---	20	---	---	Tons Product Produced
3-01-254-09	Fugitive Emissions	---	---	---	---	223000	---	---	Each-Year Process Unit Operating
3-01-254-10	Via Adipic Acid: General	3.6	---	---	0.3	---	---	---	Tons Material Produced
3-01-254-11	Ammonia Recovery Still	---	---	---	0.3	---	---	---	Tons Product Produced
3-01-254-12	Product Fractionator Vent	3.6	---	---	---	---	---	---	Tons Product Produced
3-01-254-15	Via Butadiene: General	21.5	---	---	231.9	51.3	---	---	Tons Material Produced
3-01-254-16	Chlorination Reactor	---	---	---	---	35.8	---	---	Tons Product Produced
3-01-254-17	Cyanide Synthesis	---	---	---	75.8	---	---	---	Tons Product Produced
3-01-254-18	Cyanation/Isomerization	7.6	---	---	42.4	15.5	---	---	Tons Product Produced
<b><u>Industrial Processes: Chemical Manufacturing - Benzene/Toluene/Aromatics/Xylenes - SIC 2869</u></b>									
3-01-258-80	Aromatics: Fugitive Emissions	---	---	---	---	379000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Chlorobenzene - SIC 2869</u></b>									
3-01-301-01	Tail Gas Scrubber	---	---	---	---	1.2	---	---	Tons Chlorobenzene Produced
3-01-301-06	Vacuum System Vent	---	---	---	---	0.9	---	---	Tons Chlorobenzene Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Chlorobenzene - SIC 2869</u></b>									
3-01-301-07	DCB Crystallization	---	---	---	---	0.03	---	---	Tons Chlorobenzene Produced
3-01-301-08	DCB Crystal Handling/Loading	---	---	---	---	0.04	---	---	Tons Chlorobenzene Produced
3-01-301-14	Secondary Emissions: Handling and Disposal of Wastewater	---	---	---	---	0.06	---	---	Tons Chlorobenzene Produced
3-01-301-15	Atmospheric Distillation Vents	---	---	---	---	0.8	---	---	Tons Chlorobenzene Produced
3-01-301-80	Fugitive Emissions	---	---	---	---	417000	---	---	Each-Year Process Unit Operating
<b><u>Industrial Processes: Chemical Manufacturing - Carbon Tetrachloride - SIC 2869</u></b>									
3-01-302-02	Distillation Vent	---	---	---	---	0.01	---	---	Tons Carbon Tetrachloride Produced
3-01-302-03	Caustic Scrubber	---	---	---	---	0.3	---	---	Tons Carbon Tetrachloride Produced
<b><u>Industrial Processes: Chemical Manufacturing - Allyl Chloride - SIC 2869</u></b>									
3-01-303-02	HCl Absorber	---	---	---	---	0.3	---	---	Tons Allyl Chloride Produced
3-01-303-03	Light-ends Distillation	---	---	---	---	130	---	---	Tons Allyl Chloride Produced
3-01-303-04	Allyl Chloride Distillation Column	---	---	---	---	0.2	---	---	Tons Allyl Chloride Produced
3-01-303-05	DCP Distillation Column	---	---	---	---	2	---	---	Tons Allyl Chloride Produced
<b><u>Industrial Processes: Chemical Manufacturing - Allyl Alcohol - SIC 2869</u></b>									
3-01-304-02	Catalyst Preparation	---	---	---	---	450	---	---	Tons Allyl Alcohol Produced
3-01-304-03	Filtration System	---	---	---	---	6.4	---	---	Tons Allyl Alcohol Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Chemical Manufacturing</u></b>									
<b><u>Industrial Processes: Chemical Manufacturing - Allyl Alcohol - SIC 2869</u></b>									
3-01-304-04	Light-ends Stripper	---	---	---	---	22	---	---	Tons Allyl Alcohol Produced
3-01-304-05	Distillation System Condenser	---	---	---	---	23	---	---	Tons Allyl Alcohol Produced
<b><u>Industrial Processes: Chemical Manufacturing - Fuel Fired Equipment - SIC 2800</u></b>									
3-01-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-01-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	50	0.28	---	---	1000 Gallons Residual Oil Burned
3-01-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-01-900-04	Process Gas: Process Heaters	---	---	---	140	2.8	---	---	Million Cubic Feet Process Gas Burned
3-01-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-01-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-01-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-01-900-14	Process Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned
3-01-900-99	Specify in Comments Field	See App. C	---	50	0.068	3.7	See App. C	---	footnote 14

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Alfalfa Dehydration - SIC 2048</u></b>									
3-02-001-11	Gas-fired, Triple-Pass Dryer Cyclone	4.8	---	---	---	---	---	---	Tons Finished Pellet Produced
3-02-001-12	Coal-fired, Triple-Pass Dryer Cyclone	7.5	---	---	---	---	---	---	Tons Finished Pellet Produced
3-02-001-15	Gas-fired, Single-Pass Dryer Cyclone	4.1	---	---	---	---	---	---	Tons Finished Pellet Produced
3-02-001-17	Wood-fired, Single-Pass Dryer Cyclone	3.1	---	---	---	---	---	---	Tons Finished Pellet Produced
<b><u>Industrial Processes: Food and Agriculture - Coffee Roasting - SIC 2095</u></b>									
3-02-002-08	Green Coffee Bean Storage and Handling	---	---	---	---	---	---	---	Tons Beans Stored
3-02-002-20	Indirect-fired Batch Roaster - Natural Gas (incl combustion emiss)	0.12	---	---	---	0.86	---	---	Tons Beans Fed
3-02-002-21	Indirect-fired Continuous Roaster - Natural Gas (incl combustion emiss)	0.66	---	---	---	1.4	1.5	---	Tons Beans Fed
3-02-002-28	Cooling of Roasted Coffee Beans	---	---	---	---	---	---	---	Tons Beans Fed
<b><u>Industrial Processes: Food and Agriculture - Cotton Ginning - SIC 724</u></b>									
3-02-004-01	Unloading Fan	5	0.75	---	---	---	---	---	Bales Cotton Processed
3-02-004-02	Seed Cotton Cleaning System ** (use SCCs 3-02-004-20, 21, & 22)	1	0.05	---	---	---	---	---	Bales Cotton Processed
3-02-004-03	Master Trash Fan (incl Stick&Burr Mach/Gin Stand/Extr'r Feed/Batt Cond)	3	0.03	---	---	---	---	---	Bales Cotton Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Cotton Ginning - SIC 724</u></b>									
3-02-004-04	Miscellaneous ** (incl Lint Clr/Batt Cond/Trash, Overflo & Mote Fans)	3	0.23	---	---	---	---	---	Bales Cotton Processed
3-02-004-07	Lint Cleaners	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-08	Battery Condenser (incl Baling System)	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-10	General - Entire Process, Sum of Typical Equip Used	12	1	---	---	---	---	---	Bales Cotton Processed
3-02-004-20	No. 1 Dryer and Cleaner	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-21	No. 2 Dryer and Cleaner	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-22	No. 3 Dryer and Cleaner	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-25	Overflow Fan	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-30	Cyclone Robber System	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-35	Mote Fan	---	---	---	---	---	---	---	Bales Cotton Processed
3-02-004-36	Mote Trash Fan	---	---	---	---	---	---	---	Bales Cotton Processed
<b><u>Industrial Processes: Food and Agriculture - Feed and Grain Terminal Elevators - SIC 5153, 4221, 4491</u></b>									
3-02-005-01	Shipping/Receiving **	1	---	---	---	---	---	---	Tons Grain Processed
3-02-005-02	Transfer/Convey **	2	---	---	---	---	---	---	Tons Grain Processed
3-02-005-07	Removal from Bins (Tunnel Belt)	1.4	---	---	---	---	---	---	Tons Grain Processed
3-02-005-08	Elevator Legs (Headhouse)	1.5	---	---	---	---	---	---	Tons Grain Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Feed and Grain Terminal Elevators - SIC 5153, 4221, 4491</u></b>									
3-02-005-09	Tripper (Gallery Belt)	1	---	---	---	---	---	---	Tons Grain Processed
3-02-005-10	Removal from Bins (Tunnel Belt)	2.8	---	---	---	---	---	---	Tons Grain Shipped or Received
3-02-005-11	Elevator Legs (Headhouse)	4.5	---	---	---	---	---	---	Tons Grain Shipped or Received
3-02-005-12	Country Elevators: General	10.2	1.65	---	---	---	---	---	Tons Grain Shipped or Received
3-02-005-27	Grain Drying - Column Dryer	0.22	0.055	---	---	---	---	---	Tons Grain Processed
3-02-005-28	Grain Drying - Rack Dryer	3	0.75	---	---	---	---	---	Tons Grain Processed
3-02-005-30	Headhouse & Internal Handling (legs, belts, distributors, scale, etc.)	0.061	0.034	---	---	---	---	---	Tons Grain Processed
3-02-005-37	Grain Cleaning - Internal Vibrating	---	---	---	---	---	---	---	Tons Grain Processed
3-02-005-51	Unloading (Receiving) from Straight Trucks	0.18	0.059	---	---	---	---	---	Tons Grain Processed
3-02-005-52	Unloading (Receiving) from Hopper Trucks	0.035	0.0078	---	---	---	---	---	Tons Grain Processed
3-02-005-53	Unloading (Receiving) from Railcars	0.032	0.0078	---	---	---	---	---	Tons Grain Processed
3-02-005-60	Unloading (Shipping) into Trucks (unspecified type)	0.086	0.029	---	---	---	---	---	Tons Grain Processed
3-02-005-63	Loading (Shipping) into Railcars	0.027	0.0022	---	---	---	---	---	Tons Grain Processed
<b><u>Industrial Processes: Food and Agriculture - Feed and Grain Country Elevators - SIC 5153, 4221, 4491</u></b>									
3-02-006-01	Shipping/Receiving **	5	---	---	---	---	---	---	Tons Grain Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Feed and Grain Country Elevators - SIC 5153, 4221, 4491</u></b>									
3-02-006-02	Transfer/Convey **	3	---	---	---	---	---	---	Tons Grain Processed
3-02-006-03	Cleaning	3	0.45	---	---	---	---	---	Tons Grain Processed
3-02-006-04	Drying	0.7	0.43	---	---	---	---	---	Tons Grain Processed
3-02-006-05	Unloading (Receiving)	0.6	0.294	---	---	---	---	---	Tons Grain Processed
3-02-006-06	Loading (Shipping)	0.3	0.05	---	---	---	---	---	Tons Grain Processed
3-02-006-07	Removal from Bins (Tunnel Belt)	1	0.694	---	---	---	---	---	Tons Grain Processed
3-02-006-08	Elevator Legs (Headhouse)	1.5	0.23	---	---	---	---	---	Tons Grain Processed
3-02-006-09	Tripper (Gallery Belt)	1.7	0.26	---	---	---	---	---	Tons Grain Shipped or Received
3-02-006-10	Removal from Bins (Tunnel Belt)	1	0.694	---	---	---	---	---	Tons Grain Shipped or Received
3-02-006-11	Elevator Legs (Headhouse)	---	0.7	---	---	---	---	---	Tons Grain Shipped or Received
<b><u>Industrial Processes: Food and Agriculture - Grain Millings - SIC 2041</u></b>									
3-02-007-01	General **	5	---	---	---	---	---	---	Tons Grain Processed
3-02-007-02	General **	7	---	---	---	---	---	---	Tons Grain Processed
3-02-007-08	Barley Malting: Grain Receiving	---	---	---	---	---	---	---	Tons Grain Processed
3-02-007-09	Barley Malting: Gas-fired Malt Kiln	0.19	0.17	---	---	---	---	---	Tons Grain Processed
3-02-007-11	Durum Milling: Grain Receiving	See App. C	See App. C	---	---	---	---	---	Tons Grain Received
3-02-007-21	Rye: Grain Receiving	See App. C	See App. C	---	---	---	---	---	Tons Grain Received

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Grain Millings - SIC 2041</u></b>									
3-02-007-22	Rye: Precleaning/Handling	0.061	0.034	---	---	---	---	---	Tons Grain Processed
3-02-007-31	Wheat: Grain Receiving	See App. C	See App. C	---	---	---	---	---	Tons Grain Received
3-02-007-32	Wheat: Precleaning/Handling	0.061	0.034	---	---	---	---	---	Tons Grain Processed
3-02-007-33	Wheat: Cleaning House	---	---	---	---	---	---	---	Tons Grain Processed
3-02-007-34	Wheat: Millhouse	70	35	---	---	---	---	---	footnote 15
3-02-007-41	Dry Corn Milling: Grain Receiving	See App. C	See App. C	---	---	---	---	---	Tons Grain Received
3-02-007-42	Dry Corn Milling: Grain Drying	See App. C	See App. C	---	---	---	---	---	Tons Grain Processed
3-02-007-43	Dry Corn Milling: Precleaning/Handling	0.061	0.034	---	---	---	---	---	Tons Grain Processed
3-02-007-51	Wet Corn Milling: Grain Receiving	1	---	---	---	---	---	---	Tons Grain Received
3-02-007-52	Wet Corn Milling: Grain Handling	0.87	---	---	---	---	---	---	Tons Grain Received
3-02-007-53	Wet Corn Milling: Grain Cleaning	1.6	---	---	---	---	---	---	Tons Grain Received
3-02-007-54	Wet Corn Milling: Dryers	0.48	0.29	---	---	---	---	---	Tons Grain Received
3-02-007-60	Oat: General	See App. C	See App. C	---	---	---	---	---	Tons Grain Received
3-02-007-63	Gluten Feed Drying: Direct-fired Dryer - Produces Corn Gluten Feed	---	---	---	---	---	---	---	Tons Corn Gluten Feed Produced
3-02-007-64	Gluten Feed Drying: Indirect-fired Dryer - Produces Corn Gluten Feed	---	---	---	---	---	---	---	Tons Corn Gluten Feed Produced
3-02-007-68	Gluten Drying: Direct-fired Dryer - Produces Corn Gluten Meal	---	---	---	---	---	---	---	Tons Corn Gluten Feed Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Grain Millings - SIC 2041</u></b>									
3-02-007-69	Gluten Drying: Indirect-fired Dryer - Produces Corn Gluten Meal	---	---	---	---	---	---	---	Tons Corn Gluten Feed Produced
3-02-007-73	Rice: Drying	0.063	0.0312	---	---	---	---	---	Tons Grain Processed
3-02-007-75	Rice: Paddy Cleaning	---	---	---	---	---	---	---	Tons Grain Processed
3-02-007-76	Rice: Mill House	---	---	---	---	---	---	---	Tons Grain Processed
3-02-007-77	Rice: Aspirator	---	---	---	---	---	---	---	Tons Grain Processed
3-02-007-78	Rice: Cleaning/Millhouse	---	---	---	---	---	---	---	Tons Grain Processed
3-02-007-81	Soybean: Grain Receiving	0.15	---	---	---	---	---	---	Tons Grain Received
3-02-007-85	Soybean: Cracking and Dehulling	3.3	---	---	---	---	---	---	Tons Grain Received
3-02-007-86	Soybean: Hull Grinding	2	---	---	---	---	---	---	Tons Grain Received
3-02-007-87	Soybean: Bean Conditioning	0.1	---	---	---	---	---	---	Tons Grain Received
3-02-007-88	Soybean: Flaking	0.57	---	---	---	---	---	---	Tons Grain Received
3-02-007-89	Soybean: Meal Dryer	1.5	---	---	---	---	---	---	Tons Grain Received
3-02-007-90	Soybean: Meal Cooler	1.8	---	---	---	---	---	---	Tons Grain Received
3-02-007-91	Soybean: Bulk Loading	0.27	---	---	---	---	---	---	Tons Grain Received
3-02-007-92	Soybean: White Flake Cooler	---	---	---	---	---	---	---	Tons Soybeans Processed
3-02-007-93	Soybean: Meal Grinder/Sizing	---	---	---	---	---	---	---	Tons Soybean Meal Processed



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Food and Agriculture**

**Industrial Processes: Food and Agriculture - Feed Manufacture - SIC 2082**

3-02-008-01	General **	3	---	---	---	---	---	---	Tons Grain Processed
3-02-008-02	Grain Receiving	0.017	0.0025	---	---	---	---	---	Tons Grain Received
3-02-008-03	Shipping	0.0033	0.0008	---	---	---	---	---	Tons Grain Processed
3-02-008-04	Handling	5.5	---	---	---	---	---	---	Tons Grain Received
3-02-008-05	Grinding	---	0.06	---	---	---	---	---	Tons Grain Received
3-02-008-06	Pellet Coolers	---	0.1	---	---	---	---	---	Tons Grain Received
3-02-008-07	Grain Cleaning	---	---	---	---	---	---	---	Tons Grain Processed
3-02-008-16	Pellet Cooler	---	---	---	---	---	---	---	Tons Grain Processed
3-02-008-17	Grain Milling: Hammermill	---	---	---	---	---	---	---	Tons Grain Processed
3-02-008-18	Grain Milling: Flaker	---	---	---	---	---	---	---	Tons Grain Processed
3-02-008-19	Grain Milling: Grain Cracker	---	---	---	---	---	---	---	Tons Grain Processed

**Industrial Processes: Food and Agriculture - Beer Production - SIC 2082**

3-02-009-01	Grain Handling (see also 3-02-005-xx)	3	---	---	---	---	---	---	Tons Grain Processed
3-02-009-05	Malt Kiln	0.045	0.027	---	---	---	---	---	Tons Grain Dried
3-02-009-07	Brew Kettle	0.41	---	---	---	0.64	---	---	1000 Barrels Beer Packaged
3-02-009-08	Aging Tank: Filling	---	---	---	---	0.57	---	---	1000 Barrels Beer Packaged
3-02-009-21	Mash Tun	---	---	---	---	0.054	---	---	1000 Barrels Beer Packaged

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Beer Production - SIC 2082</u></b>									
3-02-009-22	Cereal Cooker	---	---	---	---	0.0075	---	---	1000 Barrels Beer Packaged
3-02-009-23	Lauter Tun or Strainmaster	---	---	---	---	0.0055	---	---	1000 Barrels Beer Packaged
3-02-009-24	Hot Wort Settling Tank	---	---	---	---	0.075	---	---	1000 Barrels Beer Packaged
3-02-009-25	Wort Cooler	---	---	---	---	0.022	---	---	1000 Barrels Beer Packaged
3-02-009-26	Trub Vessel	---	---	---	---	0.25	---	---	1000 Barrels Beer Packaged
3-02-009-30	Brewers Grain Dryer: Natural Gas-fired	26	0.33	---	---	0.73	---	---	Tons Dried Grain Produced
3-02-009-32	Brewers Grain Dryer: Steam-heated	26	0.33	---	---	0.73	0.22	---	Tons Dried Grain Produced
3-02-009-35	Fermenter Venting: Closed Fermenter	---	---	---	---	2	---	---	1000 Barrels Beer Packaged
3-02-009-39	Activated Carbon Regeneration	---	---	---	---	0.035	---	---	1000 Barrels Beer Packaged
3-02-009-51	Can Filling Line	---	---	---	---	14	---	---	1000 Barrels Beer Canned
3-02-009-52	Sterilized Can Filling Line	---	---	---	---	35	---	---	1000 Barrels Beer Canned
3-02-009-53	Bottle Filling Line	---	---	---	---	17	---	---	1000 Barrels Beer Bottled
3-02-009-54	Sterilized Bottle Filling Line	---	---	---	---	40	---	---	1000 Barrels Beer Bottled
3-02-009-55	Keg Filling Line	---	---	---	---	0.69	---	---	1000 Barrels Beer Kegged
3-02-009-60	Bottle Soaker and Cleaner	---	---	---	---	0.2	---	---	1000 Cases Bottles Washed
3-02-009-61	Bottle Crusher	---	---	---	---	0.48	---	---	Each Batch of Bottles Crushed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Beer Production - SIC 2082</u></b>									
3-02-009-62	Can Crusher with Pneumatic Conveyor	---	---	---	---	0.088	---	---	Hallons Beer Recovered
<b><u>Industrial Processes: Food and Agriculture - Distilled Spirits - SIC 2085</u></b>									
3-02-010-01	Grain Handling** (see 3-02-006-05)	3	---	---	---	---	---	---	Tons Grain Processed
3-02-010-02	Dryer House Operations	5	---	---	---	---	---	---	Tons Grain Processed
3-02-010-03	Aging** (see 3-02-010-17)	---	---	---	---	10	---	---	Barrels (50 Gallon) Material Processed
<b><u>Industrial Processes: Food and Agriculture - Wines, Brandy, and Brandy Spirits - SIC 2084</u></b>									
3-02-011-05	Wine Fermentation - White Wine	---	---	---	---	1.8	---	---	1000 Gallons Fermented Juice Produced
3-02-011-06	Wine Fermentation - Red Wine	---	---	---	---	4.6	---	---	1000 Gallons Fermented Juice Produced
3-02-011-11	Fugitive Emissions: Pomace Screening - Red Wine	---	---	---	---	0.5	---	---	1000 Gallons Fermented Juice Produced
3-02-011-12	Fugitive Emissions: Pomace Press - Red Wine	---	---	---	---	0.02	---	---	1000 Gallons Fermented Juice Produced
3-02-011-21	Wine Bottling - White Wine	---	---	---	---	0.1	---	---	1000 Gallons Wine Bottled
<b><u>Industrial Processes: Food and Agriculture - Fish Processing - SIC 2077, 2091</u></b>									
3-02-012-01	Cookers: Fresh Fish Scrap	---	---	---	---	0.03	---	---	Tons Fish Meal Produced
3-02-012-02	Cookers: Stale Fish Scrap	---	---	---	---	3.5	---	---	Tons Fish Meal Produced
3-02-012-03	Dryers **	0.1	---	---	---	---	---	---	Tons Fish Scrap Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Fish Processing - SIC 2077, 2091</u></b>									
3-02-012-05	Steam Tube Dryer	5	1.05	---	---	---	---	---	Tons Fish Scrap Processed
3-02-012-06	Direct Fired Dryer	8	1.68	---	---	---	---	---	Tons Fish Scrap Processed
<b><u>Industrial Processes: Food and Agriculture - Meat Smokehouses - SIC 2012, 2013</u></b>									
3-02-013-02	Batch Smokehouses: Smoking Cycle	23	<sup>7</sup> 53	---	---	44	---	---	Tons Sawdust Used
3-02-013-04	Continuous Smokehouse: Smoke Zone	66	<sup>7</sup> 140	---	---	17	---	---	Tons Sawdust Used
<b><u>Industrial Processes: Food and Agriculture - Starch Manufacturing - SIC 2036</u></b>									
3-02-014-01	Combined Operations	8	---	---	120.8	252.1	---	---	Tons Starch Produced
3-02-014-07	Starch Storage Bin	---	---	---	---	---	---	---	Tons Starch Stored
3-02-014-08	Starch Bulk Loadout	---	---	---	---	---	---	---	Tons Starch Loaded
3-02-014-10	Modified Starch Drying: Flash Dryers	---	---	---	---	---	---	---	Tons Starch Produced
3-02-014-11	Modified Starch Drying: Spray Dryers	---	---	---	---	---	---	---	Tons Starch Produced
3-02-014-12	Unmodified Starch Drying: Flash Dryers	---	---	---	---	---	---	---	Tons Starch Produced
3-02-014-13	Unmodified Starch Drying: Spray Dryers	---	---	---	---	---	---	---	Tons Starch Produced
<b><u>Industrial Processes: Food and Agriculture - Sugar Beet Processing - SIC 2063</u></b>									
3-02-016-01	Pulp Dryer : Coal-fired	4.4	---	0.41	0.06	0.2	---	---	footnote 16

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Sugar Beet Processing - SIC 2063</u></b>									
3-02-016-05	Pulp Dryer : Oil-fired	---	---	---	---	---	---	---	Tons Pressed Wet Pulp Fed
3-02-016-08	Pulp Dryer : Natural Gas-fired	---	---	---	---	---	---	---	Tons Pressed Wet Pulp Fed
3-02-016-55	Sugar Cooler	---	---	---	---	---	---	---	Tons Sugar Produced
3-02-016-58	Sugar Granulator (Dryer & Cooler)	---	---	---	---	---	---	---	Tons Sugar Produced
<b><u>Industrial Processes: Food and Agriculture - Peanut Processing - SIC 2076, 2079, 2099</u></b>									
3-02-017-11	Unloading of Almonds to Receiving Pit	0.06	---	---	---	---	---	---	Tons Field Weight Processed
3-02-017-12	Precleaning of Orchard Debris from Almonds	---	---	---	---	---	---	---	Tons Field Weight Processed
3-02-017-13	Hull Removal and Separation from In-shell Almonds	---	---	---	---	---	---	---	Tons Field Weight Processed
3-02-017-14	Hulling and Shelling of Almonds (Huller/Sheller)	---	---	---	---	---	---	---	Tons Field Weight Processed
3-02-017-15	Classifier Screen Deck to Remove Shell from Meats	---	---	---	---	---	---	---	Tons Field Weight Processed
3-02-017-16	Air Leg to Separate Shells from Meats	0.51	---	---	---	---	---	---	Tons Field Weight Processed
3-02-017-99	Other Not Classified	---	---	---	0.065	---	---	---	Tons Material Processed
<b><u>Industrial Processes: Food and Agriculture - Vegetable Oil Processing - SIC 2046, 2074, 2076, 2079</u></b>									
3-02-019-06	Corn Oil: General	---	---	---	---	18.7	---	---	Tons Extractor Feed Cake Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Vegetable Oil Processing - SIC 2046, 2074, 2076, 2079</u></b>									
3-02-019-07	Cottonseed Oil: General	---	---	---	---	17.5	---	---	Tons Extractor Feed Cake Produced
3-02-019-09	Peanut Oil: General	---	---	---	---	20.7	---	---	Tons Extractor Feed Cake Produced
3-02-019-16	Oil Extraction	---	---	---	---	16.77	---	---	Tons Extractor Feed Cake Produced
3-02-019-17	Meal Preparation	---	---	---	---	1.1	---	---	Tons Extractor Feed Cake Produced
3-02-019-18	Oil Refining	---	---	---	---	0.46	---	---	Tons Extractor Feed Cake Produced
3-02-019-98	Soybean Oil Production: Complete Process-Solvent Loss (average)	---	---	---	---	4.9	---	---	Tons Soybeans Processed
<b><u>Industrial Processes: Food and Agriculture - Dairy Products - SIC 2021, 2022, 2023, 2024, 2026</u></b>									
3-02-030-10	Whey Dryer	---	---	---	---	---	---	---	Tons Dry Product Produced
3-02-030-20	Cheese Dryer	---	---	---	---	---	---	---	Tons Dry Product Produced
<b><u>Industrial Processes: Food and Agriculture - Export Grain Elevators - SIC 4491, 4221</u></b>									
3-02-031-03	Cleaning	3	0.45	---	---	---	---	---	Tons Grain Processed
3-02-031-04	Drying	1.1	0.67	---	---	---	---	---	Tons Grain Processed
3-02-031-05	Unloading	1	---	---	---	---	---	---	Tons Grain Processed
3-02-031-06	Loading	1	---	---	---	---	---	---	Tons Grain Processed
3-02-031-07	Removal from Bins (Tunnel Belt)	1.4	---	---	---	---	---	---	Tons Grain Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Export Grain Elevators - SIC 4491, 4221</u></b>									
3-02-031-08	Elevator Legs (Headhouse)	1.5	---	---	---	---	---	---	Tons Grain Processed
3-02-031-09	Tripper (Gallery Belt)	1	---	---	---	---	---	---	Tons Grain Processed
<b><u>Industrial Processes: Food and Agriculture - Bakeries - SIC 2051, 2052</u></b>									
3-02-032-01	Bread Baking: Sponge-Dough Process	---	---	---	---	<sup>17</sup> 0.95 Y + 0.1	---	---	Tons Bread Baked
3-02-032-02	Bread Baking: Straight-Dough Process	---	---	---	---	<sup>17</sup> 0.95 Y + 0.1	---	---	Tons Bread Baked
<b><u>Industrial Processes: Food and Agriculture - Tobacco Processing - SIC 2111, 2121, 2131, 2141</u></b>									
3-02-033-99	Other Not Classified	---	---	0.48	---	0.34	---	---	Tons Product Produced
<b><u>Industrial Processes: Food and Agriculture - Baker's Yeast Manufacturing - Dry Yeast - SIC 2000, 2090, 2099</u></b>									
3-02-034-04	Intermediate Fermentor (F4 Stage)	---	---	---	---	36	---	---	Tons Yeast from F4 Produced
3-02-034-05	Stock Fermentor (F5 Stage)	---	---	---	---	5	---	---	Tons Yeast from F5 Produced
3-02-034-06	Pitch Fermentor (F6 Stage)	---	---	---	---	5	---	---	Tons Yeast from F6 Produced
3-02-034-07	Trade Fermentor (F7 Stage)	---	---	---	---	5	---	---	Tons Yeast from F7 Produced
<b><u>Industrial Processes: Food and Agriculture - Deep Fat Frying - SIC 2099, 2017, 2051, 2092</u></b>									
3-02-036-01	Continuous Deep Fat Fryer: Potato Chips	1.6	---	---	---	0.02	---	---	Tons Chips Produced
3-02-036-02	Continuous Deep Fat Fryer: Other Snack Chips	0.56	---	---	---	0.085	---	---	Tons Finished Product Produced
3-02-036-03	Batch Deep Fat Fryer: Potato Chips	---	---	---	---	---	---	---	Tons Finished Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Food and Agriculture</u></b>									
<b><u>Industrial Processes: Food and Agriculture - Animal/Poultry Rendering - SIC 2077</u></b>									
3-02-038-11	Blood Dryer: Natural Gas Direct Fired	---	---	---	---	---	---	---	Tons Dried Blood Meal Produced
<b><u>Industrial Processes: Food and Agriculture - Carob Kibble - SIC 2041</u></b>									
3-02-039-01	Roaster	6	0.72	---	---	---	---	---	Tons Material Roasted
<b><u>Industrial Processes: Food and Agriculture - Cereal - SIC 2043</u></b>									
3-02-040-01	Dryer	---	0.66	---	---	---	---	---	Tons Material Dried
<b><u>Industrial Processes: Food and Agriculture - Fuel Fired Equipment - SIC 2000</u></b>									
3-02-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-02-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-02-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Aluminum Ore (Bauxite) - SIC 1099</u></b>									
3-03-000-01	Crushing/Handling	---	<sup>7</sup> 6	---	---	---	---	---	Tons Ore Processed
3-03-000-02	Drying Oven	---	0.7	1.4	---	---	---	---	Tons Ore Processed
3-03-000-03	Fine Ore Storage	---	0.0007	3	---	---	---	---	Tons Material Handled
<b><u>Industrial Processes: Primary Metal Production - Aluminum Ore (Electro-reduction) - SIC 3334</u></b>									
3-03-001-01	Prebaked Reduction Cell	<sup>7</sup> See App. C	54.5	60	0.003	0.1	---	---	Tons Molten Aluminum Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Aluminum Ore (Electro-reduction) - SIC 3334</u></b>									
3-03-001-02	Horizontal Stud Soderberg Cell	7 See App. C	7 98	---	---	1	---	---	Tons Molten Aluminum Produced
3-03-001-03	Vertical Stud Soderberg Cell	7 See App. C	7 78	---	---	1	---	---	Tons Molten Aluminum Produced
3-03-001-04	Materials Handling	10	5.8	---	---	---	---	---	Tons Molten Aluminum Produced
3-03-001-05	Anode Baking Furnace	7 3	---	---	---	1	---	---	Tons Molten Aluminum Produced
3-03-001-07	Roof Vents	---	---	---	---	2.7	---	---	Tons Molten Aluminum Produced
3-03-001-08	Prebake: Fugitive Emissions	---	7 5	---	---	---	---	---	Tons Molten Aluminum Produced
3-03-001-09	H.S.S.: Fugitive Emissions	---	7 10	---	---	---	---	---	Tons Molten Aluminum Produced
3-03-001-10	V.S.S.: Fugitive Emissions	7 12	3.7	---	---	---	---	---	Tons Molten Aluminum Produced
<b><u>Industrial Processes: Primary Metal Production - Aluminum Hydroxide Calcining - SIC 3334</u></b>									
3-03-002-01	Overall Process	7 200	24	---	---	0.02	---	---	Tons Alumina Produced
<b><u>Industrial Processes: Primary Metal Production - By-product Coke Manufacturing - SIC 3312</u></b>									
3-03-003-02	Oven Charging	0.48	0.01	10 0.02	0.03	2.5	0.6	---	footnote 18
3-03-003-03	Oven Pushing	1.15	0.5	3.3	0.03	0.2	0.07	---	footnote 19
3-03-003-04	Quenching	See App. C	See App. C	---	0.6	---	---	---	footnote 20
3-03-003-05	Coal Unloading	0.00011	0.000054	---	---	---	---	---	Tons Coal Charged

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - By-product Coke Manufacturing - SIC 3312</u></b>									
3-03-003-06	Oven Underfiring	0.47	---	---	0.04	2	---	---	Tons Coal Charged
3-03-003-08	Oven/Door Leaks	0.54	0.51	0.294	0.01	1.5	0.6	---	footnote 21
3-03-003-10	Coal Crushing	0.11	0.05	---	---	---	---	---	Tons Material Processed
3-03-003-12	Coke: Crushing/Screening/Handling	---	0.04	---	---	---	---	---	Tons Material Processed
3-03-003-13	Coal Preheater	3.5	3.4	---	---	0.3	---	---	footnote 20
3-03-003-14	Topside Leaks	---	0.08	0.1	0.01	1.5	---	---	Tons Coal Charged
3-03-003-17	Combustion Stack: Coke Oven Gas (COG)	0.47	---	<sup>10</sup> See App. C	---	---	---	---	Tons Coke Produced
3-03-003-18	Combustion Stack: Blast Furnace Gas (BFG)	0.17	---	<sup>10</sup> 1.08	---	---	---	---	Tons Coke Produced
<b><u>Industrial Processes: Primary Metal Production - Coke Manufacture: Beehive Process - SIC 3312</u></b>									
3-03-004-01	General	---	97.8	---	---	---	---	---	Tons Coal Charged
<b><u>Industrial Processes: Primary Metal Production - Primary Copper Smelting - SIC 3331</u></b>									
3-03-005-02	Multiple Hearth Roaster	45	23.8	280	---	---	---	0.15	Tons Concentrated Ore Processed
3-03-005-03	Reverberatory Smelting Furnace after Roaster	50	13.6	160	---	---	---	0.072	Tons Concentrated Ore Processed
3-03-005-04	Converter (All Configurations)	36	21.2	740	---	---	---	0.27	Tons Concentrated Ore Processed
3-03-005-05	Fire (Furnace) Refining	---	9.2	---	---	---	---	---	Tons Concentrated Ore Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Primary Copper Smelting - SIC 3331</u></b>									
3-03-005-06	Ore Concentrate Dryer	10	4.8	1	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-07	Reverberatory Smelting Furnace w/ Ore Charge w/o Roasting	---	13.5	---	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-09	Fluidized Bed Roaster	55	29.2	360	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-10	Electric Smelting Furnace	100	58	240	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-12	Flash Smelting	140	83	820	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-13	Roasting: Fugitive Emissions	2.6	1.4	1	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-14	Reverberatory Furnace: Fugitive Emissions	0.4	0.17	<b>10</b> 4	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-15	Converter: Fugitive Emissions	4.4	2.6	130	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-16	Anode Refining Furnace: Fugitive Emissions	0.5	0.46	0.1	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-17	Slag Cleaning Furnace: Fugitive Emissions	8	7.7	6	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-18	Converter Slag Return: Fugitive Emissions	---	---	0.1	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-22	Slag Cleaning Furnace	10	7.7	6	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-23	Reverberatory Furnace with Converter	86	9.7	320	---	---	---	---	Tons Concentrated Ore Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Primary Copper Smelting - SIC 3331</u></b>									
3-03-005-24	AFT MHR+RF/FBR+EF	36	21.2	600	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-25	Fluid Bed Roaster with Reverberatory Furnace and Converter	86	19.1	360	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-26	Dryer with Electric Furnace and Cleaning Furnace and Converter	146	17.3	1	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-27	Dryer with Flash Furnace and Converter	150	4.8	1	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-29	Multiple Hearth Roaster with Reverberatory Furnace and Converter	131	19	280	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-30	Fluid Bed Roaster with Electric Furnace and Converter	136	19.1	600	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-31	Reverberatory Furnace After Multiple Hearth Roaster	50	13.5	180	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-32	Reverberatory Furnace After Fluid Bed Roaster	50	13.5	160	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-33	Electric Furnace After Concentrate Dryer	100	58	240	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-34	Flash Furnace After Concentrate Dryer	140	83	820	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-35	Electric Furnace After Fluid Bed Roaster	---	58	---	---	---	---	---	Tons Concentrated Ore Processed
3-03-005-41	Concentrate Dryer Followed by Noranda Reactors and Converter	---	---	10, 13 1	---	---	---	---	Tons Concentrated Ore Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Ferroalloy, Open Furnace - SIC 3313</u></b>									
3-03-006-01	50% FeSi: Electric Smelting Furnace	See App. C	44	0.07	0.1	4.5	---	0.29	Tons Material Produced
3-03-006-02	75% FeSi: Electric Smelting Furnace	See App. C	199	0.07	0.1	---	---	---	Tons Material Produced
3-03-006-03	90% FeSi: Electric Smelting Furnace	564	355	0.07	0.1	---	---	---	Tons Material Produced
3-03-006-04	Silicon Metal: Electric Smelting Furnace	872	750	0.07	0.1	71.8	---	0.0031	Tons Material Produced
3-03-006-05	Silicomanganese: Electric Smelting Furnace	192	177	---	0.1	---	---	0.0057	Tons Material Produced
3-03-006-06	80% Ferromanganese	28	24	---	---	---	---	---	Tons Material Produced
3-03-006-07	80% Ferrochromium	157	143	---	---	---	---	---	Tons Material Produced
3-03-006-15	Ferromanganese: Blast Furnace	---	---	---	---	16	---	---	Tons Material Produced
3-03-006-16	Ferrosilicon: Blast Furnace	---	---	---	---	16	---	---	Tons Material Produced
3-03-006-17	Cast House	---	---	---	---	2.8	---	---	Tons Material Produced
<b><u>Industrial Processes: Primary Metal Production - Semi-covered Furnace - SIC 3313</u></b>									
3-03-007-01	Ferromanganese: Electric Arc Furnace	See App. C	10.8	0.01	0.1	1.4	---	0.11	Tons Material Produced
3-03-007-02	Electric Arc Furnace: Other Alloys/Specify	---	---	---	---	---	---	---	Megawatt-Hour Energy Consumed
3-03-007-03	Ferrochromium: Electric Arc Furnace	---	---	---	---	8.2	---	---	Tons Material Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Semi-covered Furnace - SIC 3313</u></b>									
3-03-007-04	Ferrochromium Silicon: Electric Arc Furnace	---	---	---	---	8.2	---	---	Tons Material Produced
<b><u>Industrial Processes: Primary Metal Production - Integrated Iron and Steel Manufacturing - SIC 3312</u></b>									
3-03-008-01	Ore Charging	---	41.8	---	---	---	---	---	Tons Iron Produced
3-03-008-02	Agglomerate Charging	---	15.2	---	---	---	---	---	Tons Iron Produced
3-03-008-04	Loader: Hi-Silt	0.026	0.013	---	---	---	---	---	Tons Slag Transferred
3-03-008-05	Loader: Low-Silt	0.0088	0.0044	---	---	---	---	---	Tons Slag Transferred
3-03-008-13	Windbox	11.1	1.67	---	0.3	1.4	44.7	---	Tons Material Produced
3-03-008-14	Discharge End	6.8	1.02	---	---	---	---	---	Tons Material Produced
3-03-008-17	Cooler	---	0.45	0.14	---	---	---	---	Tons Material Produced
3-03-008-19	Sinter Process (Combined Code includes 15,16,17,18)	---	0.12	---	---	0.05	---	---	Tons Material Produced
3-03-008-20	Sinter Conveyor: Transfer Station	---	0.02	---	---	---	---	---	Tons Sinter Transferred
3-03-008-21	Unload Ore, Pellets, Limestone, into Blast Furnace	0.0024	0.0012	---	---	---	---	---	Tons Ore Transferred
3-03-008-22	Raw Material Stockpile: Ore, Pellets, Limestone, Coke, Sinter	---	---	---	---	4.8	---	---	Tons Material Processed
3-03-008-24	Blast Heating Stoves	---	---	---	---	0.01	---	---	Tons Material Processed
3-03-008-25	Cast House	0.6	0.31	3	0.03	2.8	---	---	Tons Material Processed
3-03-008-26	Blast Furnace Slips	87	33	---	---	---	---	---	Each Slip Occurred

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Integrated Iron and Steel Manufacturing - SIC 3312</u></b>									
3-03-008-27	Lump Ore Unloading	0.0003	0.0002	---	---	---	---	---	Tons Ore Transferred
3-03-008-31	Unpaved Roads: LDV	1.8	1	---	---	---	---	---	Miles Vehicle Travelled
3-03-008-32	Unpaved Roads: MDV	7.3	4.1	---	---	---	---	---	Miles Vehicle Travelled
3-03-008-33	Unpaved Roads: HDV	14	7.6	---	---	---	---	---	Miles Vehicle Travelled
3-03-008-34	Paved Roads: All Vehicle Types	0.78	0.44	---	---	---	---	---	Miles Vehicle Travelled
<b><u>Industrial Processes: Primary Metal Production - Steel Manufacturing (See 3-03-015 for Integrated Iron &amp; Steel MACT) - SIC 3312</u></b>									
3-03-009-01	Open Hearth Furnace: Stack	21.1	17.5	2.8	---	0.17	---	---	Tons Material Produced
3-03-009-04	Electric Arc Furnace: Alloy Steel (Stack)	11.3	6.55	0.07	0.2	0.35	18	---	Tons Material Produced
3-03-009-06	Charging: Electric Arc Furnace	---	---	---	---	0.001	---	---	Tons Material Produced
3-03-009-07	Tapping: Electric Arc Furnace	---	---	---	---	0.005	---	---	Tons Material Produced
3-03-009-08	Electric Arc Furnace: Carbon Steel (Stack)	0.00935	22.04	0.07	0.2	0.35	18	---	footnote 22
3-03-009-11	Soaking Pits	---	0.03	---	---	0.59	---	---	Tons Material Produced
3-03-009-13	Basic Oxygen Furnace: Open Hood-Stack	28.5	13.1	---	0.08	0.001	138	---	Tons Material Produced
3-03-009-14	Basic Oxygen Furnace: Closed Hood-Stack	28.5	13.1	---	---	0.001	138	---	Tons Material Produced
3-03-009-15	Hot Metal (Iron) Transfer to Steelmaking Furnace	0.19	0.09	---	---	0.001	---	---	Tons Material Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Steel Manufacturing (See 3-03-015 for Integrated Iron &amp; Steel MACT) - SIC 3312</u></b>									
3-03-009-16	Charging: BOF	0.6	0.34	---	---	0.001	---	---	Tons Material Produced
3-03-009-17	Tapping: BOF	0.92	0.46	---	0.02	0.005	---	---	Tons Material Produced
3-03-009-18	Charging: Open Hearth	---	---	---	---	0.001	---	---	Tons Material Produced
3-03-009-19	Tapping: Open Hearth	---	---	---	---	0.002	---	---	Tons Material Produced
3-03-009-20	Hot Metal Desulfurization	---	0.22	---	---	---	---	---	Tons Material Processed
3-03-009-21	Teeming (Unleaded Steel)	0.07	0.03	---	---	0.002	---	---	Tons Material Produced
3-03-009-22	Continuous Casting	---	---	---	0.05	---	---	---	Tons Material Produced
3-03-009-23	Steel Furnace Slag Tapping and Dumping	---	0.9	---	---	0.002	---	---	Tons Material Produced
3-03-009-24	Steel Furnace Slag Processing	---	0.29	---	---	---	---	---	Tons Material Produced
3-03-009-25	Teeming (Leaded Steel)	0.81	0.36	---	---	0.002	---	---	Tons Material Produced
3-03-009-32	Scarfig	0.1	0.1	---	---	---	---	---	Tons Material Produced
3-03-009-33	Reheat Furnaces	---	0.08	---	0.8	0.01	---	---	Tons Material Produced
3-03-009-34	Heat Treating Furnaces: Annealing	---	---	---	0.1	---	---	---	Tons Material Produced
3-03-009-36	Coating: Tin, Zinc, etc.	---	---	---	1.9	0.07	---	---	Tons Material Produced
<b><u>Industrial Processes: Primary Metal Production - Lead Production - SIC 3339</u></b>									
3-03-010-01	Sintering: Single Stream	106.5	208.7	275	---	---	---	105	Tons Concentrated Ore Processed



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Lead Production - SIC 3339</u></b>									
3-03-010-02	Blast Furnace Operation	180.5	321.3	22.5	---	---	---	0.0001	footnote 23
3-03-010-03	Dross Reverberatory Furnace	20	19.6	---	---	---	---	2.9	Tons Concentrated Ore Processed
3-03-010-04	Ore Crushing	6	---	---	---	---	---	0.3	Tons Ore Crushed
3-03-010-05	Materials Handling (Includes 11, 12, 13, 04, 14)	5	4.25	---	---	---	---	---	Tons Lead Product Produced
3-03-010-06	Sintering: Dual Stream Feed End	213	181	550	---	---	---	174	Tons Concentrated Ore Processed
3-03-010-08	Slag Fume Furnace	4.6	1.29	2.9	---	---	---	---	Tons Lead Product Produced
3-03-010-09	Lead Drossing	0.48	0.47	---	---	---	---	---	Tons Lead Product Produced
3-03-010-10	Raw Material Crushing and Grinding	2.26	0.85	---	---	---	---	---	Tons Material Processed
3-03-010-11	Raw Material Unloading	---	0.34	---	---	---	---	---	Tons Raw Material Processed
3-03-010-12	Raw Material Storage Piles	---	0.26	---	---	---	---	---	Tons Raw Material Processed
3-03-010-13	Raw Material Transfer	---	0.43	---	---	---	---	---	Tons Raw Material Processed
3-03-010-14	Sintering Charge Mixing	---	1.9	---	---	---	---	---	Tons Raw Material Processed
3-03-010-15	Sinter Crushing/Screening	---	0.12	---	---	---	---	---	Tons Sinter Processed
3-03-010-16	Sinter Transfer	---	0.015	---	---	---	---	---	Tons Sinter Processed
3-03-010-17	Sinter Fines Return Handling	---	4.8	---	---	---	---	---	Tons Sinter Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Primary Metal Production**

**Industrial Processes: Primary Metal Production - Lead Production - SIC 3339**

3-03-010-19	Blast Furnace Tapping (Metal and Slag)	---	0.07	---	---	---	---	---	Tons Lead Product Produced
3-03-010-20	Blast Furnace Lead Pouring	0.93	0.93	---	---	---	---	---	Tons Lead Product Produced
3-03-010-21	Blast Furnace Slag Pouring	0.47	0.13	---	---	---	---	---	Tons Lead Product Produced
3-03-010-22	Lead Refining/Silver Retort	1.8	1.76	---	---	---	---	---	Tons Lead Product Produced
3-03-010-23	Lead Casting	0.87	0.85	---	---	---	---	---	Tons Lead Product Produced
3-03-010-24	Reverberatory or Kettle Softening	3	2.94	---	---	---	---	---	Tons Lead Product Produced
3-03-010-25	Sinter Machine Leakage	0.68	0.67	---	---	---	---	---	Tons Sinter Processed
3-03-010-26	Sinter Dump Area	0.01	0.0008	---	---	---	---	---	Tons Sinter Processed
3-03-010-28	Tetrahedrite Dryer	---	---	---	---	---	---	---	Tons Ore Processed
3-03-010-29	Sinter Machine (Weak Gas)	---	---	10 550	---	---	---	---	Tons Sinter Produced
3-03-010-32	Ore Screening	---	---	---	---	---	---	---	Tons Ore Processed

**Industrial Processes: Primary Metal Production - Titanium - SIC 3339, 3369, 3356, 3364**

3-03-012-02	Drying Titanium Sand Ore (Cyclone Exit)	0.5	0.43	---	---	---	---	---	Tons Ore Processed
-------------	---	-----	------	-----	-----	-----	-----	-----	--------------------

**Industrial Processes: Primary Metal Production - Taconite Iron Ore Processing - SIC 1011**

3-03-023-01	Primary Crushing	0.2	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-02	Tertiary Crusher	79.8	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-04	Ore Transfer	0.1	0.085	---	---	---	---	---	Tons Pellets Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Taconite Iron Ore Processing - SIC 1011</u></b>									
3-03-023-07	Bentonite Storage	0.04	0.03	---	---	---	---	---	Tons Pellets Produced
3-03-023-08	Bentonite Blending	19	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-09	Traveling Grate Feed** (use 3-03-023-79)	0.64	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-10	Traveling Grate Discharge** (use 3-03-023-80)	1.32	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-12	Indurating Furnace: Gas Fired** (see 3-03-023-51 thru -88)	29.2	24.8	---	---	---	---	---	Tons Pellets Produced
3-03-023-13	Indurating Furnace: Oil Fired** (see 3-03-023-51 thru -88)	29.2	24.8	---	---	---	---	---	Tons Pellets Produced
3-03-023-14	Indurating Furnace: Coal Fired** (see 3-03-023-51 thru -88)	29.2	24.8	---	---	---	---	---	Tons Pellets Produced
3-03-023-15	Pellet Cooler	0.12	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-16	Pellet Transfer to Storage	3.4	1.5	---	---	---	---	---	Tons Pellets Produced
3-03-023-21	Haul Road: Rock	11	6.2	---	---	---	---	---	Miles Vehicle Travelled
3-03-023-22	Haul Road: Taconite	9.3	5.2	---	---	---	---	---	Miles Vehicle Travelled
3-03-023-25	Primary Crusher Return Conveyor Transfer	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-27	Secondary Crushing Line (includes Feed & Discharge Pts)	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-28	Secondary Crusher Return Conveyor Transfer	---	---	---	---	---	---	---	Tons Pellets Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Taconite Iron Ore Processing - SIC 1011</u></b>									
3-03-023-30	Tertiary Crushing Line (includes Feed & Discharge Pts)	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-31	Tertiary Crushing Line Discharge Conveyor	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-34	Grinder Feed	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-41	Conveyor Transfer to Concentrator	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-45	Bentonite Transfer to Blending	3.2	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-48	Hearth Layer Feed to Furnace	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-49	Grate/Kiln Furnace Feed	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-50	Grate/Kiln Furnace Discharge	0.82	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-51	Induration: Grate/Kiln, Gas-fired, Acid Pellets	7.4	0.63	<sup>10</sup> 0.29	1.5	See App. C	0.014	---	Tons Pellets Produced
3-03-023-52	Induration: Grate/Kiln, Gas-fired, Flux Pellets	7.4	0.63	---	<sup>13</sup> 1.5	See App. C	<sup>13</sup> 0.1	---	Tons Pellets Produced
3-03-023-53	Induration: Grate/Kiln, Gas & Oil-fired, Acid Pellets	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-54	Induration: Grate/Kiln, Gas & Oil-fired, Flux Pellets	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-55	Induration: Grate/Kiln, Coke-fired, Acid Pellets	---	---	<sup>10</sup> 1.9	---	---	---	---	Tons Pellets Produced
3-03-023-56	Induration: Grate/Kiln, Coke-fired, Flux Pellets	---	---	---	---	---	---	---	Tons Pellets Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Taconite Iron Ore Processing - SIC 1011</u></b>									
				<b>10</b>					
3-03-023-57	Induration: Grate/Kiln, Coke & Coal-fired, Acid Pellets	---	---	2.3	---	---	---	---	Tons Pellets Produced
3-03-023-58	Induration: Grate/Kiln, Coke & Coal-fired, Flux Pellets	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-61	Induration: Grate/Kiln, Coal & Oil-fired, Acid Pellets	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-62	Induration: Grate/Kiln, Coal & Oil-fired, Flux Pellets	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-71	Induration: Vertical Shaft, Gas-fired, Acid Pellets, Top Gas Stack	16	---	---	0.2	0.013	0.077	---	Tons Pellets Produced
3-03-023-72	Induration: Vertical Shaft, Gas-fired, Flux Pellets, Top Gas Stack	16	---	---	---	0.013	---	---	Tons Pellets Produced
3-03-023-73	Induration: Vertical Shaft, Gas-fired, Acid Pellets, Bottom Gas Stack	---	---	---	---	0.046	---	---	Tons Pellets Produced
3-03-023-74	Induration: Vertical Shaft, Gas-fired, Flux Pellets, Bottom Gas Stack	---	---	---	---	0.046	---	---	Tons Pellets Produced
3-03-023-79	Straight Grate Furnace Feed	0.63	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-80	Straight Grate Furnace Discharge	1.4	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-81	Induration: Straight Grate, Gas-fired, Acid Pellets	---	---	---	---	---	0.039	---	Tons Pellets Produced
3-03-023-82	Induration: Straight Grate, Gas-fired, Flux Pellets	---	---	---	2.5	---	---	---	Tons Pellets Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Taconite Iron Ore Processing - SIC 1011</u></b>									
3-03-023-83	Induration: Straight Grate, Oil-fired, Acid Pellets	1.2	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-84	Induration: Straight Grate, Oil-fired, Flux Pellets	1.2	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-85	Induration: Straight Grate, Coke-fired, Acid Pellets	---	---	---	---	---	<b>13</b> 0.039	---	Tons Pellets Produced
3-03-023-87	Induration: Straight Grate, Coke & Gas-fired, Acid Pellets	---	---	---	0.44	---	0.15	---	Tons Pellets Produced
3-03-023-88	Induration: Straight Grate, Coke & Gas-fired, Flux Pellets	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-93	Hearth Layer Screen	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-95	Pellet Screen	10	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-96	Pellet Storage Bin Loading	3.7	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-97	Secondary Storage Bin Loading	---	---	---	---	---	---	---	Tons Pellets Produced
3-03-023-98	Tertiary Storage Bin Loading	---	---	---	---	---	---	---	Tons Pellets Produced
<b><u>Industrial Processes: Primary Metal Production - Metal Mining (General Processes) - SIC 1011, 1099</u></b>									
3-03-024-01	Primary Crushing: Low Moisture Ore	0.5	0.05	---	---	---	---	---	Tons Ore Processed
3-03-024-02	Secondary Crushing: Low Moisture Ore	1.2	0.1	---	---	---	---	---	Tons Ore Processed
3-03-024-03	Tertiary Crushing: Low Moisture Ore	2.7	0.16	---	---	---	---	---	Tons Ore Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Primary Metal Production**

**Industrial Processes: Primary Metal Production - Metal Mining (General Processes) - SIC 1011, 1099**

3-03-024-04	Material Handling: Low Moisture Ore	See App. C	0.06	---	---	---	---	---	Tons Ore Processed
3-03-024-05	Primary Crushing: High Moisture Ore	0.02	0.009	---	---	---	---	---	Tons Ore Processed
3-03-024-06	Secondary Crushing: High Moisture Ore	0.05	0.02	---	---	---	---	---	Tons Ore Processed
3-03-024-07	Tertiary Crushing: High Moisture Ore	0.06	0.02	---	---	---	---	---	Tons Ore Processed
3-03-024-08	Material Handling: High Moisture Ore	0.01	0.004	---	---	---	---	---	Tons Ore Processed
3-03-024-09	Dry Grinding with Air Conveying	28.8	26	---	---	---	---	---	Tons Ore Processed
3-03-024-10	Dry Grinding without Air Conveying	2.4	0.31	---	---	---	---	---	Tons Ore Processed
3-03-024-11	Ore Drying	19.7	12	---	1.6	0.004	---	---	Tons Ore Processed

**Industrial Processes: Primary Metal Production - Zinc Production - SIC 3339**

3-03-030-02	Multiple Hearth Roaster	227	159	---	---	---	---	---	Tons Concentrated Ore Processed
3-03-030-03	Sinter Strand	125	89	0.64	---	---	---	---	Tons Concentrated Ore Processed
3-03-030-05	Vertical Retort/Electrothermal Furnace	14.3	93	1.13	---	---	---	---	Tons Concentrated Ore Processed
3-03-030-06	Electrolytic Processor	6.6	3	---	---	---	---	---	Tons Concentrated Ore Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Zinc Production - SIC 3339</u></b>									
3-03-030-07	Flash Roaster	2000	1840	404.4	---	---	---	---	Tons Concentrated Ore Processed
3-03-030-08	Fluid Bed Roaster	2167	1994	223.5	---	---	---	---	Tons Concentrated Ore Processed
3-03-030-09	Raw Material Handling and Transfer	---	3.4	---	---	---	---	---	Tons Raw Material Processed
3-03-030-10	Sinter Breaking and Cooling	---	1.3	---	---	---	---	---	Tons Sinter Processed
3-03-030-11	Zinc Casting	1.35	2.1	---	---	---	---	---	Tons Zinc Produced
3-03-030-12	Raw Material Unloading	0.4	0.23	---	---	---	---	0.13	Tons Raw Material Processed
3-03-030-25	Sinter Plant, Wind Box: Fugitive Emissions	0.24 - 1.1	---	---	---	---	---	---	Tons Product Produced
3-03-030-26	Sinter Plant, Discharge Screens: Fugitive Emissions	0.56 - 2.44	---	---	---	---	---	---	Tons Product Produced
3-03-030-27	Retort Building: Fugitive Emissions	2 - 4	---	---	---	---	---	---	Tons Product Produced
3-03-030-28	Casting: Fugitive Emissions	2.52	---	---	---	---	---	---	Tons Product Produced
3-03-030-29	Electric Retort	20	---	---	---	---	---	---	Tons Zinc Ore Processed
<b><u>Industrial Processes: Primary Metal Production - Leadbearing Ore Crushing and Grinding - SIC 3300, 3330, 3339, 3369</u></b>									
3-03-031-01	Lead Ore w/ 5.1% Lead Content	6	---	---	---	---	---	0.3	Tons Ore Processed
3-03-031-02	Zinc Ore w/ 0.2% Lead Content	6	---	---	---	---	---	0.012	Tons Ore Processed
3-03-031-03	Copper Ore w/ 0.2% Lead Content	6.4	---	---	---	---	---	0.012	Tons Ore Processed



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Primary Metal Production**

**Industrial Processes: Primary Metal Production - Leadbearing Ore Crushing and Grinding - SIC 3300, 3330, 3339, 3369**

3-03-031-04	Lead-Zinc Ore w/ 2% Lead Content	6	---	---	---	---	---	0.12	Tons Ore Processed
3-03-031-05	Copper-Lead Ore w/ 2% Lead Content	6.4	---	---	---	---	---	0.12	Tons Ore Processed
3-03-031-06	Copper-Zinc Ore w/ 0.2% Lead Content	6.4	---	---	---	---	---	0.012	Tons Ore Processed
3-03-031-07	Copper-Lead-Zinc w/ 2% Lead Content	6.4	---	---	---	---	---	0.12	Tons Ore Processed

**Industrial Processes: Primary Metal Production - Fuel Fired Equipment - SIC 1000, 3300**

3-03-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-03-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-03-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-03-900-04	Process Gas: Process Heaters	---	---	---	---	2.8	---	---	Million Cubic Feet Process Gas Burned
3-03-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.34	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-03-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-03-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-03-900-14	Process Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Primary Metal Production</u></b>									
<b><u>Industrial Processes: Primary Metal Production - Fuel Fired Equipment - SIC 1000, 3300</u></b>									
3-03-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-03-900-24	Process Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Aluminum - SIC 3341, 3353, 3354, 3355, 3363, 3365</u></b>									
3-04-001-01	Sweating Furnace	14.5	13.3	0.02	---	---	---	---	footnote 24
3-04-001-02	Smelting Furnace/Crucible	1.9	1.7	---	---	---	---	---	footnote 24
3-04-001-03	Smelting Furnace/Reverberatory	4.3	2.6	---	---	0.2	---	---	footnote 24
3-04-001-04	Fluxing: Chlorination	1000	532	---	---	---	---	---	Tons Chlorine Used
3-04-001-09	Burning/Drying	---	---	2.9	0.9	---	---	---	footnote 24
3-04-001-11	Foil Converting	---	---	---	---	2.4	---	---	Tons Material Produced
3-04-001-14	Pouring/Casting	---	---	0.02	0.01	0.14	---	---	Tons Metal Charged
3-04-001-20	Can Manufacture	---	---	---	0.7	---	---	---	Tons Material Produced
<b><u>Industrial Processes: Secondary Metal Production - Copper - SIC 3341, 3364, 3366, 3369</u></b>									
3-04-002-04	Electric Induction Furnace **	20	---	---	---	---	---	---	Tons Charge Fed
3-04-002-07	Scrap Dryer (Rotary)	---	253	---	---	---	---	---	Tons Charge Fed
3-04-002-08	Wire Burning: Incinerator	---	253	12.8	---	0.6	---	---	Tons Charge Fed
3-04-002-10	Charge with Scrap Copper: Cupolas	0.0003	0.00027	---	---	0.18	---	---	Tons Charge Fed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Copper - SIC 3341, 3364, 3366, 3369</u></b>									
3-04-002-11	Charge with Insulated Copper Wire: Cupolas	230	211.6	---	---	0.6	---	---	footnote 25
3-04-002-12	Charge with Scrap Copper And Brass: Cupolas	70	64.4	---	---	0.18	---	---	Tons Charge Fed
3-04-002-13	Charge with Scrap Iron: Cupolas	---	7 0.003	---	---	---	---	---	Tons Ore Processed
3-04-002-14	Charge with Copper: Reverberatory Furnace	5.1	5.1	---	---	0.2	---	---	Tons Charge Fed
3-04-002-15	Charge with Brass and Bronze: Reverberatory Furnace	36	21.2	---	---	0.2	---	---	Tons Charge Fed
3-04-002-17	Charge with Brass and Bronze: Rotary Furnace	300	177	---	---	2.4	---	---	Tons Charge Fed
3-04-002-19	Charge with Brass and Bronze: Crucible and Pot Furnace	21	12.4	0.5	---	---	---	---	Tons Charge Fed
3-04-002-20	Charge with Copper: Electric Arc Furnace	5	5	---	---	---	---	---	Tons Charge Fed
3-04-002-21	Charge with Brass and Bronze: Electric Arc Furnace	11	6.5	---	---	---	---	---	Tons Charge Fed
3-04-002-23	Charge with Copper: Electric Induction	7	7	---	---	---	---	---	Tons Charge Fed
3-04-002-24	Charge with Brass and Bronze: Electric Induction	20	20	---	---	---	---	---	Tons Charge Fed
3-04-002-31	Scrap Dryer	---	8.2	---	---	---	---	---	Tons Charge Fed
3-04-002-32	Wire Incinerator	---	8.2	---	---	---	---	---	Tons Charge Fed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Secondary Metal Production**

**Industrial Processes: Secondary Metal Production - Copper - SIC 3341, 3364, 3366, 3369**

3-04-002-33	Sweating Furnace	---	0.45	---	---	---	---	---	Tons Charge Fed
3-04-002-34	Cupola Furnace	---	2.2	---	---	---	---	---	Tons Charge Fed
3-04-002-35	Reverberatory Furnace	---	3.1	---	---	---	---	---	Tons Charge Fed
3-04-002-36	Rotary Furnace	---	2.6	---	---	---	---	---	Tons Charge Fed
3-04-002-37	Crucible Furnace	---	0.29	---	---	---	---	---	Tons Charge Fed
3-04-002-38	Electric Induction Furnace	---	0.04	---	---	---	---	---	Tons Charge Fed
3-04-002-39	Casting Operations	---	0.015	---	---	---	---	---	Tons Castings Produced
3-04-002-42	Charge with Other Alloy (7%): Reverberatory Furnace	---	---	---	---	---	---	5	Tons Material Produced
3-04-002-43	Charge with High Lead Alloy (58%): Reverberatory Furnace	---	---	---	---	---	---	50	Tons Material Produced
3-04-002-44	Charge with Red/Yellow Brass: Reverberatory Furnace	---	---	---	---	---	---	13.2	Tons Material Produced

**Industrial Processes: Secondary Metal Production - Grey Iron Foundries - SIC 3321**

3-04-003-01	Cupola	See App. C	12.4	1.25	0.1	0.18	145	0.1 - 1.1	footnote 26
3-04-003-02	Reverberatory Furnace	2.1	1.7	---	5.8	0.15	---	0.012 - 0.14	footnote 27
3-04-003-03	Electric Induction Furnace	0.9	0.86	---	---	---	---	0.009 - 0.1	footnote 27
3-04-003-04	Electric Arc Furnace	12.7	11.6	0.24	0.04 - 0.6	0.06 - 0.3	1 - 37	---	footnote 28
3-04-003-05	Annealing Operation	---	---	---	1	0.1	---	---	Tons Material Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Grey Iron Foundries - SIC 3321</u></b>									
3-04-003-10	Inoculation	4	---	---	---	0.005	---	---	Tons Metal Inoculated
3-04-003-15	Charge Handling	0.6	0.36	---	---	---	---	---	Tons Metal Charged
3-04-003-18	Pouring, Cooling	4.2	2.06	---	---	---	---	---	Tons Gray Iron Produced
3-04-003-19	Core Making, Baking	---	1.1	---	---	---	---	---	Tons Gray Iron Produced
3-04-003-20	Pouring/Casting	4.2	2.06	0.02	0.01	0.14	---	---	Tons Metal Charged
3-04-003-21	Magnesium Treatment	---	1.8	---	---	---	---	---	Tons Gray Iron Produced
3-04-003-22	Refining	---	3 - 5	---	---	---	---	---	Tons Gray Iron Produced
3-04-003-25	Castings Cooling	---	1.4	---	---	---	---	---	Tons Metal Charged
3-04-003-31	Casting Shakeout	3.2	2.24	---	---	1.2	---	---	footnote 29
3-04-003-32	Casting Knock Out	---	---	---	---	1.2	---	---	Tons Sand Handled
3-04-003-33	Shakeout Machine	---	---	---	---	1.2	---	---	Tons Sand Handled
3-04-003-40	Grinding/Cleaning	17	1.7	---	---	---	---	---	Tons Metal Charged
3-04-003-50	Sand Grinding/Handling	3.6	0.54	---	---	---	---	---	Tons Sand Handled
3-04-003-51	Core Ovens	---	2.22	0.038	0.5	---	---	---	Tons Sand Handled
3-04-003-52	Sand Grinding/Handling	---	6	---	---	---	---	---	Tons Metal Charged
3-04-003-53	Core Ovens	---	0.9	---	0.5	---	---	---	Tons Metal Charged
3-04-003-54	Core Ovens	---	---	---	0.5	---	---	---	Hallons Core Oil Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Grey Iron Foundries - SIC 3321</u></b>									
3-04-003-60	Castings Finishing	---	0.0045	---	---	---	---	---	Tons Metal Charged
3-04-003-70	Shell Core Machine	---	---	0.32	0.5	---	---	---	Tons Cores Produced
3-04-003-71	Core Machines/Other	---	---	---	0.5	---	---	---	Tons Cores Produced
3-04-003-98	Other Not Classified	1.494	---	<sup>10</sup> 0.063	---	---	---	---	Tons Raw Material Processed
<b><u>Industrial Processes: Secondary Metal Production - Lead - SIC 3341, 3364</u></b>									
3-04-004-01	Pot Furnace	---	0.2	---	---	---	---	---	Tons Metal Charged
3-04-004-02	Reverberatory Furnace	323	193.8	80	0.3	---	---	65	footnote 30
3-04-004-03	Blast Furnace (Cupola)	307	129	53	0.1	---	18	104	footnote 31
3-04-004-04	Rotary Sweating Furnace	32 - 70	64	---	---	---	---	7 - 16	footnote 31
3-04-004-05	Reverberatory Sweating Furnace	51	31	---	---	---	---	---	Tons Metal Charged
3-04-004-06	Pot Furnace Heater: Distillate Oil	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil Burned
3-04-004-07	Pot Furnace Heater: Natural Gas	---	---	0.6	100	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-04-004-08	Barton Process Reactor (Oxidation Kettle)	< 40	40	---	---	---	---	0.44	Tons Lead Oxide Produced
3-04-004-09	Casting	0.04	0.87	---	---	---	---	0.01	Tons Lead Cast
3-04-004-12	Sweating Furnace: Fugitive Emissions	1.6 - 3.5	2.35	---	---	---	---	0.4 - 1.8	Tons Metal Charged

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Lead - SIC 3341, 3364</u></b>									
3-04-004-13	Smelting Furnace: Fugitive Emissions	8.6 - 24.2	10	---	---	---	---	0.2 - 0.6	footnote 32
3-04-004-14	Kettle Refining: Fugitive Emissions	0.002	0.002	---	---	---	---	0.0006	footnote 32
3-04-004-25	Casting: Fugitive Emissions	0.002	---	---	---	---	---	0.0007	Tons Lead Produced
3-04-004-26	Kettle Refining	0.03	---	---	---	---	---	0.01	Tons Lead Produced
<b><u>Industrial Processes: Secondary Metal Production - Lead Battery Manufacture - SIC 3691</u></b>									
3-04-005-01	Overall Process **	0.9	---	---	---	---	---	1.177	Tons Batteries Produced
3-04-005-02	Casting Furnace **	0.04	---	---	---	---	---	0.059	Tons Batteries Produced
3-04-005-03	Paste Mixer **	0.21	---	---	---	---	---	0.192	Tons Batteries Produced
3-04-005-04	Three Process Operation **	0.64	---	---	---	---	---	0.815	Tons Batteries Produced
3-04-005-05	Overall Process	125 - 139	125	---	---	---	---	15.3 - 17.7	1000 Each Batteries Produced
3-04-005-06	Grid Casting	1.8 - 3.13	2.84	---	---	---	---	0.77 - 0.9	1000 Each Batteries Produced
3-04-005-07	Paste Mixing	2.2 - 4.32	4.32	---	---	---	---	1.1 - 2.49	1000 Each of Baterries Produced
3-04-005-08	Lead Oxide Mill (Baghouse Outlet)	0.11	0.08	---	---	---	---	0.11	1000 Each Batteries Produced
3-04-005-09	Three Process Operation	29.2 - 92.6	84	---	---	---	---	10.6 - 14.6	1000 Each Batteries Produced
3-04-005-10	Lead Reclaiming Furnace	1.54 - 6.68	1.67	---	---	---	---	0.77 - 1.38	1000 Each of Baterries Produced
3-04-005-11	Small Parts Casting	0.19	0.19	---	---	---	---	0.1	1000 Each Batteries Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Lead Battery Manufacture - SIC 3691</u></b>									
3-04-005-12	Formation	32.1 - 32.4	32.4	---	---	---	---	---	1000 Each Batteries Produced
3-04-005-22	Grid Casting	---	---	---	---	---	---	0.139	Tons Material Processed
3-04-005-23	Paste Mixing	---	---	---	---	---	---	1.72	Tons Material Processed
3-04-005-26	Lead Reclaiming Furnace	---	---	---	---	---	---	5.9	Tons Material Processed
<b><u>Industrial Processes: Secondary Metal Production - Magnesium - SIC 3341</u></b>									
3-04-006-01	Pot Furnace	4	3.7	---	2.5	2.4	---	---	Tons Material Processed
<b><u>Industrial Processes: Secondary Metal Production - Steel Foundries - SIC 3324, 3325</u></b>									
3-04-007-01	Electric Arc Furnace	13	---	0.24	0.2	0.35	---	---	Tons Metal Processed
3-04-007-02	Open Hearth Furnace	11	---	---	0.01	0.17	---	---	Tons Metal Processed
3-04-007-03	Open Hearth Furnace with Oxygen Lance	10	8.5	---	---	0.17	---	---	Tons Metal Processed
3-04-007-04	Heat Treating Furnace	---	---	277.3	80.7	0.6	---	---	Tons Metal Processed
3-04-007-05	Electric Induction Furnace	0.01	0.09	---	---	---	---	---	Tons Metal Processed
3-04-007-06	Sand Grinding/Handling	---	0.54	---	---	---	---	---	Tons Sand Processed
3-04-007-07	Core Ovens	---	2.22	---	---	---	---	---	Tons Sand Processed
3-04-007-08	Pouring/Casting	2.8	2.8	0.02	0.01	0.14	---	---	Tons Metal Processed
3-04-007-09	Casting Shakeout	---	26.2	---	---	1.2	---	---	Tons Metal Processed
3-04-007-10	Casting Knock Out	---	---	---	---	1.2	---	---	Tons Sand Handled



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Steel Foundries - SIC 3324, 3325</u></b>									
3-04-007-11	Cleaning	---	1.7	---	---	---	---	---	Tons Metal Processed
3-04-007-12	Charge Handling	---	0.36	---	---	---	---	---	Tons Metal Processed
3-04-007-13	Castings Cooling	1.4	1.4	---	---	---	---	---	Tons Metal Processed
3-04-007-14	Shakeout Machine	---	---	---	---	1.2	---	---	Tons Sand Handled
3-04-007-15	Finishing	---	0.0045	47.66	---	1.1	---	---	Tons Metal Processed
3-04-007-16	Sand Grinding/Handling	---	6	---	---	---	---	---	Tons Metal Processed
3-04-007-17	Core Ovens	---	0.9	---	0.5	---	---	---	Tons Metal Processed
3-04-007-18	Core Ovens	---	---	---	0.5	---	---	---	Hallons Core Oil Used
3-04-007-30	Shell Core Machine	---	---	---	0.5	---	---	---	Tons Cores Produced
3-04-007-31	Core Machines/Other	---	---	---	0.5	---	---	---	Tons Cores Produced
<b><u>Industrial Processes: Secondary Metal Production - Zinc - SIC 3341</u></b>									
3-04-008-01	Retort Furnace	47	47	---	---	---	---	---	footnote 33
3-04-008-02	Horizontal Muffle Furnace	45	---	---	---	2.4	---	---	Tons Material Produced
3-04-008-03	Pot Furnace	0.1	0.09	---	---	2.4	---	---	Tons Material Produced
3-04-008-05	Galvanizing Kettle	5	5	---	---	---	---	---	Tons Zinc Used
3-04-008-06	Calcining Kiln	89	---	18.3	---	---	---	---	footnote 33
3-04-008-09	Rotary Sweat Furnace	11 - 25	16.6	---	---	2.4	---	---	footnote 33

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Zinc - SIC 3341</u></b>									
3-04-008-10	Muffle Sweat Furnace	10.8 - 32	19.7	---	---	2.4	---	---	footnote 33
3-04-008-11	Electric Resistance Sweat Furnace	< 1	10	---	---	2.4	---	---	footnote 33
3-04-008-12	Crushing/Screening of Zinc Residues	4.25	---	---	---	---	---	---	Tons Residues/Skimmings Processed
3-04-008-24	Kettle-Sweat Furnace: General Metallic Scrap	11	11	---	---	2.4	---	---	footnote 33
3-04-008-28	Reverberatory Sweat Furnace: General Metallic Scrap	13	13	---	---	2.4	---	---	footnote 34
3-04-008-34	Kettle-Sweat Furnace: Residual Metallic Scrap	25	15	---	---	2.4	---	---	footnote 33
3-04-008-38	Reverberatory Sweat Furnace: Residual Metallic Scrap	32	19	---	---	2.4	---	---	footnote 34
3-04-008-41	Scrap Melting: Crucible	---	---	---	---	2.5	---	---	Tons Material Produced
3-04-008-42	Scrap Melting: Reverberatory Furnace	---	---	---	---	0.2	---	---	Tons Material Produced
3-04-008-43	Scrap Melting: Electric Induction Furnace	---	---	---	---	0.18	---	---	Tons Material Produced
3-04-008-51	Retort and Muffle Distillation: Pouring	0.4 - 0.8	0.6	---	---	---	---	---	Tons Material Produced
3-04-008-52	Retort and Muffle Distillation: Casting	0.2 - 0.4	0.3	---	---	---	---	---	Tons Material Produced
3-04-008-54	Retort Distillation/Oxidation	20 - 40	30	20.96	---	---	---	---	Tons Zinc Oxide Produced
3-04-008-55	Muffle Distillation/Oxidation	20 - 40	30	40.21	---	---	---	---	Tons Zinc Oxide Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Zinc - SIC 3341</u></b>									
3-04-008-61	Reverberatory Sweating	1.3	0.78	---	---	2.4	---	---	Tons Material Produced
3-04-008-62	Rotary Sweating	0.9	0.54	---	---	2.4	---	---	Tons Material Produced
3-04-008-63	Muffle Sweating	1.07	0.64	---	---	2.4	---	---	Tons Material Produced
3-04-008-64	Kettle (Pot) Sweating	0.56	0.34	---	---	2.4	---	---	Tons Material Produced
3-04-008-65	Electric Resistance Sweating	0.5	0.5	---	---	2.4	---	---	footnote 35
3-04-008-67	Kettle (Pot) Melting Furnace	0.005	0.005	---	---	2.4	---	---	Tons Material Produced
3-04-008-68	Crucible Melting Furnace	0.005	0.005	---	---	2.5	---	---	Tons Material Produced
3-04-008-69	Reverberatory Melting Furnace	0.005	0.005	---	---	0.2	---	---	Tons Material Produced
3-04-008-70	Electric Induction Melting Furnace	0.005	0.005	---	---	0.18	---	---	Tons Material Produced
3-04-008-72	Retort and Muffle Distillation	2.36	2.36	---	---	---	---	---	Tons Material Produced
3-04-008-73	Casting	0.015	0.015	---	---	---	---	---	Tons Material Produced
<b><u>Industrial Processes: Secondary Metal Production - Malleable Iron - SIC 3322</u></b>									
3-04-009-01	Annealing	---	---	---	---	0.1	---	---	Tons Metal Charged
<b><u>Industrial Processes: Secondary Metal Production - Nickel - SIC 3341</u></b>									
3-04-010-07	Electric Arc Furnace with Carbon Electrode	---	---	60	0.003	0.1	---	---	Tons Material Processed
3-04-010-08	Electric Arc Furnace	---	---	0.24	0.32	0.18	---	---	Tons Material Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Furnace Electrode Manufacture - SIC 3624</u></b>									
3-04-020-01	Calcination	---	---	---	---	0.06	---	---	Tons Material Processed
3-04-020-04	Bake Furnaces	---	---	1.6	---	1	---	---	Tons Material Processed
<b><u>Industrial Processes: Secondary Metal Production - Metal Heat Treating - SIC 3398</u></b>									
3-04-022-01	Furnace: General	---	---	---	---	0.1	---	---	Tons Material Processed
3-04-022-10	Quench Bath	---	---	---	---	280	---	---	Tons Material Processed
<b><u>Industrial Processes: Secondary Metal Production - Lead Cable Coating - SIC 3357, 3315</u></b>									
3-04-040-01	General	0.6	0.36	---	---	---	---	0.5	Tons Material Processed
<b><u>Industrial Processes: Secondary Metal Production - Metallic Lead Products - SIC 3300, 3340, 3350, 3356, 3360, 3369, 3400</u></b>									
3-04-051-01	Ammunition	---	---	---	---	---	---	< 1	Tons Lead Processed
3-04-051-03	Other Sources of Lead	---	---	---	---	---	---	1.5	Tons Lead Processed
<b><u>Industrial Processes: Secondary Metal Production - Fuel Fired Equipment - SIC 3300, 3400</u></b>									
3-04-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-04-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-04-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-04-900-04	Process Gas: Process Heaters	---	---	<sup>2</sup> 950 S	140	2.8	---	---	Million Cubic Feet Process Gas Burned
3-04-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Secondary Metal Production</u></b>									
<b><u>Industrial Processes: Secondary Metal Production - Fuel Fired Equipment - SIC 3300, 3400</u></b>									
3-04-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-04-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-04-900-14	Process Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned
3-04-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-04-900-24	Process Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Asphalt Roofing Manufacture - SIC 2952</u></b>									
3-05-001-01	Asphalt Blowing: Saturant (Use 3-05-050-10 for MACT)	6.6	6.8	---	---	1.46	0.27	---	Tons Asphalt Processed
3-05-001-02	Asphalt Blowing: Coating (Use 3-05-050-10 for MACT)	24	25	---	---	1.86	0.27	---	Tons Asphalt Processed
3-05-001-03	Felt Saturation: Dipping Only	0.5	0.5	---	---	0.02	0.02	---	Tons Shingles Processed
3-05-001-04	Felt Saturation: Dipping/Spraying	3.14	2.26	---	---	0.03	0.25	---	Tons Shingles Processed
3-05-001-05	General **	6.3	---	---	---	0.48	2.9	---	Tons Saturated Felt Processed
3-05-001-10	Blowing (Use 3-05-050-01 for MACT)	---	---	---	---	---	0.27	---	Tons Saturated Felt Processed
3-05-001-11	Dipping Only	---	---	---	---	0.02	---	---	Tons Saturated Felt Processed
3-05-001-12	Spraying Only	---	---	---	---	0.01	---	---	Tons Saturated Felt Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Mineral Products**

**Industrial Processes: Mineral Products - Asphalt Roofing Manufacture - SIC 2952**

3-05-001-13	Dipping/Spraying	---	---	---	---	0.03	---	---	Tons Saturated Felt Processed
3-05-001-16	Shingle Saturation: Dip Saturator, Drying-in Drum, Hot Looper & Coater	1.2	---	---	---	---	---	---	Tons Shingles Produced
3-05-001-17	Shingle Saturation: Dip Saturator, Drying-in Drum and Coater	---	---	---	---	---	0.0019	---	Tons Shingles Produced
3-05-001-18	Shingle Saturation: Dip Saturator, Drying-in Drum and Hot Looper	---	---	---	---	---	---	---	Tons Shingles Produced
3-05-001-19	Shingle Sat'ion: Spray/Dip Satur, Drying-in Drm, Hot Loopr, Coatr & Str Tk	3.2	---	---	---	---	---	---	Tons Shingles Produced

**Industrial Processes: Mineral Products - Asphalt Concrete - SIC 2951**

3-05-002-01	Rotary Dryer: Conventional Plant (see 3-05-002-50 -51 -52 for subtypes)	---	---	0.073	---	0.028	---	---	Tons Hot Mix Asphalt Produced
3-05-002-02	Hot Elevators, Screens, Bins and Mixer	---	0.03	0.07	---	---	---	---	Tons Hot Mix Asphalt Produced
3-05-002-03	Storage Piles	---	0.12	---	---	---	---	---	Tons Material Processed
3-05-002-06	Asphalt Heater: Natural Gas (Use 3-05-050-20 for MACT)	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-05-002-07	Asphalt Heater: Residual Oil (Use 3-05-050-21 for MACT)	---	---	<sup>2</sup> 159 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-05-002-11	Rotary Dryer Conventional Plant with Cyclone ** use 3-05-002-01 w/CTL	---	0.36	---	---	---	---	---	Tons Hot Mix Asphalt Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Asphalt Concrete - SIC 2951</u></b>									
3-05-002-51	Conventional Batch Mix Plant: Rotary Dryer, Natural Gas - Fired	32	4.5	<b>10</b> 0.005	0.025	---	0.34	---	Tons Hot Mix Asphalt Produced
3-05-002-52	Conventional Batch Mix Plant: Rotary Dryer, Oil - Fired	32	4.5	<b>10</b> 0.24	0.17	---	0.069	---	Tons Hot Mix Asphalt Produced
3-05-002-55	Drum Mix Plant: Rotary Drum Dryer / Mixer, Natural Gas - Fired	19	4.3	<b>10</b> 0.0033	0.03	---	0.056	---	Tons Hot Mix Asphalt Produced
3-05-002-58	Drum Mix Plant: Rotary Drum Dryer / Mixer, Oil - Fired	19	4.3	<b>10</b> 0.056	0.075	---	0.036	---	Tons Hot Mix Asphalt Produced
<b><u>Industrial Processes: Mineral Products - Brick Manufacture - SIC 3251</u></b>									
3-05-003-01	Raw Material Drying	70	41	---	---	---	---	---	Tons Raw Material Processed
3-05-003-02	Raw Material Grinding & Screening	See App. C	See App. C	---	---	---	---	---	Tons Raw Material Processed
3-05-003-03	Storage of Raw Materials	34	12	---	---	---	---	---	Tons Raw Material Stored
3-05-003-04	Curing **	0.07	---	0.02	0.29	0.03	0.07	---	Tons Brick Produced
3-05-003-08	Screening	---	1.4	---	---	---	---	---	Tons Raw Material Processed
3-05-003-10	Curing and Firing: Sawdust Fired Tunnel Kilns	0.34	0.26	<b>10</b> 0.67	0.37	0.024	1.6	0.00015	Tons Brick Produced
3-05-003-11	Curing and Firing: Gas-fired Tunnel Kilns	0.37	0.28	<b>10</b> 0.67	0.35	0.024	1.2	0.00015	Tons Brick Produced
3-05-003-12	Curing and Firing: Oil-fired Tunnel Kilns	0.59	0.32	<b>2</b> 3.95 S	1.05	0.007	0.12	---	Tons Brick Produced
3-05-003-13	Curing and Firing: Coal-fired Tunnel Kilns	1.2	0.76	<b>2</b> 7.31 S	0.51	0.024	0.8	0.00015	Tons Brick Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Brick Manufacture - SIC 3251</u></b>									
3-05-003-14	Curing and Firing: Gas-fired Periodic Kilns	0.065	0.034	---	0.5	0.01	0.15	---	Tons Brick Produced
3-05-003-15	Curing and Firing: Oil-fired Periodic Kilns	0.88	0.47	<sup>2</sup> 5.9 S	1.62	0.01	0.19	---	Tons Brick Produced
3-05-003-16	Curing and Firing: Coal-fired Periodic Kilns	<sup>1</sup> 18.84 A	10	<sup>2</sup> 12.13 S	2.35	0.02	2.39	---	Tons Brick Produced
3-05-003-22	Firing: Natural Gas-fired Tunnel Kiln Firing High-Sulfur Material	---	---	<sup>10</sup> 5.1	0.35	---	1.2	---	Tons Brick Produced
3-05-003-40	Primary Crusher	---	---	---	---	---	---	---	Tons Brick Produced
3-05-003-42	Extrusion Line	---	---	---	---	---	---	---	Tons Brick Produced
3-05-003-50	Brick Dryer: Heated With Waste Heat From Kiln Cooling Zone	0.077	---	---	---	0.03	---	---	Tons Brick Produced
3-05-003-51	Brick Dryer: Heated With Waste Heat And Supplemental Gas Burners	0.077	---	---	0.098	0.03	0.31	---	Tons Brick Produced
3-05-003-61	Sawdust Dryer: Heated With Exhaust From Sawdust-fired Kiln	1.3	0.25	---	---	0.18	---	0.00012	Tons Brick Produced
3-05-003-70	Firing: Natural Gas-fired Tunnel Kiln Firing Structural Clay Tile	1	---	---	---	---	---	---	Tons Tile Produced
<b><u>Industrial Processes: Mineral Products - Calcium Carbide - SIC 2819</u></b>									
3-05-004-01	Electric Furnace: Hoods and Main Stack	26	22	3	---	---	---	---	footnote 34
3-05-004-02	Coke Dryer	2	1	3	0.2	---	---	---	footnote 34



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Calcium Carbide - SIC 2819</u></b>									
3-05-004-03	Furnace Room Vents	26	24	---	---	---	---	---	footnote 34
3-05-004-04	Tap Fume Vents	---	---	---	---	---	---	---	Tons Feed Material Processed
3-05-004-05	Primary/Secondary Crushing	---	---	---	---	---	---	---	Tons Feed Material Processed
3-05-004-06	Circular Charging: Conveyor	---	---	---	---	---	---	---	Tons Feed Material Processed
<b><u>Industrial Processes: Mineral Products - Castable Refractory - SIC 3255</u></b>									
3-05-005-01	Fire Clay: Rotary Dryer	65	16	---	---	---	---	---	Tons Feed Material Fed
3-05-005-02	Raw Material Crushing/Processing	120	61.2	---	---	---	---	---	Tons Feed Material Fed
3-05-005-03	Electric Arc Melt Furnace	50	46	---	---	---	---	---	Tons Feed Material Fed
3-05-005-04	Curing Oven	0.2	0.1	---	0.16	1	---	---	Tons Feed Material Fed
3-05-005-05	Molding and Shakeout	25	20	---	---	---	---	---	Tons Feed Material Fed
3-05-005-06	Fire Clay: Rotary Calciner	120	30	---	13 1.7	---	---	---	Tons Feed Material Fed
3-05-005-08	Chromite-Magnesite Ore: Rotary Dryer	1.7	0.41	---	---	---	---	---	Tons Ore Processed
3-05-005-09	Chromite-Magnesite Ore: Tunnel Kiln	0.82	0.69	---	---	---	---	---	Tons Ore Processed
<b><u>Industrial Processes: Mineral Products - Cement Manufacturing (Dry Process) - SIC 3241</u></b>									
3-05-006-06	Kilns	256	108	10.8	6	---	0.21	0.12	footnote 36
3-05-006-07	Raw Material Unloading	---	0.1	---	---	---	---	---	Tons Material Unloaded
3-05-006-08	Raw Material Piles	---	1.4	---	---	---	---	---	Ton-Years Material Stored

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Cement Manufacturing (Dry Process) - SIC 3241</u></b>									
3-05-006-09	Primary Crushing	---	0.26	---	---	---	---	---	Tons Material Processed
3-05-006-10	Secondary Crushing	---	1.13	---	---	---	---	---	Tons Material Processed
3-05-006-12	Raw Material Transfer	---	0.15	---	---	---	---	---	Tons Material Handled
3-05-006-13	Raw Material Grinding and Drying	64	54	---	---	---	---	0.04	footnote 36
3-05-006-14	Clinker Cooler	9.2	0.8	---	---	---	---	---	footnote 36
3-05-006-17	Clinker Grinding	96	82	---	---	---	---	0.04	footnote 36
3-05-006-19	Cement Load Out	---	0.2	---	---	---	---	---	Tons Cement Produced
3-05-006-22	Preheater Kiln	250	---	<sup>10</sup> 0.55	4.8	---	0.98	---	Tons Clinker Produced
3-05-006-23	Preheater/Precalciner Kiln	---	---	<sup>10</sup> 1.1	4.2	---	3.7	---	Tons Clinker Produced
3-05-006-24	Raw Mill Feed Belt	---	---	---	---	---	---	---	Tons Material Processed
3-05-006-25	Raw Mill Weigh Hopper	---	---	---	---	---	---	---	Tons Material Processed
3-05-006-26	Raw Mill Air Separator	---	---	---	---	---	---	---	Tons Material Processed
3-05-006-27	Finish Grinding Mill Feed Belt	---	---	---	---	---	---	---	Tons Material Processed
3-05-006-28	Finish Grinding Mill Weigh Hopper	---	---	---	---	---	---	---	Tons Material Processed
3-05-006-29	Finish Grinding Mill Air Separator	---	---	---	---	---	---	---	Tons Material Processed
<b><u>Industrial Processes: Mineral Products - Cement Manufacturing (Wet Process) - SIC 3241</u></b>									
3-05-007-06	Kilns	130	31	10.8	7.4	---	0.12	0.1	footnote 37

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Cement Manufacturing (Wet Process) - SIC 3241</u></b>									
3-05-007-07	Raw Material Unloading	---	0.1	---	---	---	---	---	Tons Material Unloaded
3-05-007-08	Raw Material Piles	---	1.4	---	---	---	---	---	Ton-Years Material Stored
3-05-007-09	Primary Crushing	---	0.26	---	---	---	---	---	Tons Material Processed
3-05-007-10	Secondary Crushing	---	1.13	---	---	---	---	---	Tons Material Processed
3-05-007-11	Screening	---	---	---	---	---	---	---	Tons Material Processed
3-05-007-12	Raw Material Transfer	---	0.15	---	---	---	---	---	Tons Material Handled
3-05-007-14	Clinker Cooler	---	0.8	---	---	---	---	---	Tons Cement Produced
3-05-007-17	Clinker Grinding	32	27	---	---	---	---	0.02	Tons Cement Produced
3-05-007-27	Finish Grinding Mill Feed Belt	---	---	---	---	---	---	---	Tons Material Processed
3-05-007-28	Finish Grinding Mill Weigh Hopper	---	---	---	---	---	---	---	Tons Material Processed
3-05-007-29	Finish Grinding Mill Air Separator	---	---	---	---	---	---	---	Tons Material Processed
<b><u>Industrial Processes: Mineral Products - Ceramic Clay/Tile Manufacture - SIC 3261</u></b>									
3-05-008-01	Drying ** (use SCC 3-05-008-13)	70	35.7	---	---	---	---	---	Tons Material Fed
3-05-008-02	Comminution - Crushing, Grinding, & Milling	76	64.6	---	---	---	---	---	Tons Material Processed
3-05-008-10	Granulation - Natural Gas-fired Spray Dryer	---	---	---	---	---	---	---	Tons Dry Material Produced
3-05-008-13	Drying - Convection Drying Prior to Firing	2.3	---	---	---	---	---	---	Tons Fired Ceramic Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Ceramic Clay/Tile Manufacture - SIC 3261</u></b>									
3-05-008-31	Forming - Tape Casters	---	---	---	---	---	---	---	Tons Product Produced
3-05-008-45	Ceramic Glaze Spray Booth	19	---	---	---	---	---	3	Tons Glaze Used
3-05-008-50	Firing - Natural Gas-fired Kiln	0.49	---	<b>2, 10</b> 44 S	0.54	0.43	3.3	---	Tons Product Produced
3-05-008-56	Refiring Kiln - Refiring after Decal, Paint, or Ink Applied; Natural-g	0.067	---	---	---	---	---	---	Tons Product Produced
3-05-008-58	Cooler - Cooling Ceramics Following Firing	0.11	---	---	---	---	---	---	Tons Product Produced
<b><u>Industrial Processes: Mineral Products - Clay and Fly Ash Sintering - SIC 3295</u></b>									
3-05-009-01	Fly Ash Sintering	110	68	---	---	---	---	---	footnote 38
3-05-009-02	Clay/Coke Sintering	40	20.4	---	---	---	---	---	footnote 38
3-05-009-03	Natural Clay/Shale Sintering	12	6.36	---	---	---	---	---	footnote 38
3-05-009-04	Raw Clay/Shale Crushing/Screening	12	0.25	---	---	---	---	---	Tons Raw Material Processed
3-05-009-05	Raw Clay/Shale Transfer/Conveying	---	0.4	---	---	---	---	---	Tons Raw Material Processed
3-05-009-07	Sintered Clay/Coke Product Crushing/Screening	15	12.8	---	---	---	---	---	footnote 38
3-05-009-08	Sintered Clay/Shale Product Crushing/Screening	12	---	---	---	---	---	---	Tons Finished Product Produced
3-05-009-16	Dryer	70	62.6	---	---	---	---	---	Tons Clay Dried
3-05-009-17	Clay Reciprocating Grate Clinker Cooler	0.314	0.18	---	---	---	---	---	Tons Clay Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Coal Mining, Cleaning, and Material Handling (See 305310) - SIC 1111, 1221, 1222</u></b>									
3-05-010-01	Fluidized Bed	26	<sup>7</sup> 26.04	1.4	0.16	0.098	---	---	Tons Wet Coal Dried
3-05-010-02	Flash or Suspension	16	---	0.52	---	---	---	---	footnote 39
3-05-010-03	Multilouvered	3.7	<sup>7</sup> 3.78	---	---	---	---	---	Tons Wet Coal Dried
3-05-010-08	Unloading	0.02	0.006	---	---	---	---	---	Tons Coal Shipped
3-05-010-10	Crushing	0.02	0.006	---	---	---	---	---	Tons Coal Shipped
3-05-010-13	Air Tables	---	---	---	---	---	---	---	Tons Coal Shipped
3-05-010-15	Loading	---	---	---	---	---	---	---	Tons Coal Loaded
3-05-010-23	Loading	---	0.05	---	---	---	---	---	Tons Coal Mined
3-05-010-24	Hauling	---	2.1	---	---	---	---	---	Miles Vehicle Travelled
3-05-010-30	Topsoil Removal	0.06	---	---	---	---	---	---	Tons Topsoil Removed
3-05-010-31	Scrapers: Travel Mode	14.6	---	---	---	---	---	---	Miles Scraper Travelled
3-05-010-32	Topsoil Unloading	0.04	---	---	---	---	---	---	Tons Topsoil Processed
3-05-010-33	Overburden	1.3	0.16	---	---	---	---	---	Each Hole Drilled
3-05-010-34	Coal Seam: Drilling	0.22	0.028	---	---	---	---	---	Each Hole Drilled
3-05-010-35	Blasting: Coal Overburden	---	---	---	---	---	---	---	Each Blast Occurred
3-05-010-36	Dragline: Overburden Removal	0.06	0.009	---	---	---	---	---	Cubic Yards Overburden Removed
3-05-010-37	Truck Loading: Overburden	---	0.015	---	---	---	---	---	Tons Overburden Loaded

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Coal Mining, Cleaning, and Material Handling (See 305310) - SIC 1111, 1221, 1222</u></b>									
3-05-010-38	Truck Loading: Coal	0.04	0.005	---	---	---	---	---	Tons Coal Loaded
3-05-010-39	Hauling: Haul Trucks	17.2	2.1	---	---	---	---	---	Miles Vehicle Travelled
3-05-010-40	Truck Unloading: End Dump - Coal	0.007	0.001	---	---	---	---	---	Tons Coal Processed
3-05-010-41	Truck Unloading: Bottom Dump - Coal	0.066	0.01	---	---	---	---	---	Tons Coal Processed
3-05-010-42	Truck Unloading: Bottom Dump - Overburden	0.002	0.001	---	---	---	---	---	Tons Overburden Processed
3-05-010-43	Open Storage Pile: Coal	---	17060	---	---	---	---	---	Acre-Years Coal Storage Area Existing
3-05-010-44	Train Loading: Coal	---	0.0059	---	---	---	---	---	Tons Coal Loaded
3-05-010-45	Bulldozing: Overburden	---	---	---	---	---	---	---	Hour Bulldozer Operated
3-05-010-46	Bulldozing: Coal	49.4	---	---	---	---	---	---	Hour Bulldozer Operated
3-05-010-47	Grading	5.37	3.33	---	---	---	---	---	Miles Grader Travelled
3-05-010-48	Overburden Replacement	0.012	0.006	---	---	---	---	---	Tons Overburden Processed
3-05-010-49	Wind Erosion: Exposed Areas	760	380	---	---	---	---	---	Acre-Years Exposed Area Existing
3-05-010-50	Vehicle Traffic: Light/Medium Vehicles	2.79	1.56	---	---	---	---	---	Miles Vehicle Travelled
<b><u>Industrial Processes: Mineral Products - Concrete Batching - SIC 3270, 1771, 3292</u></b>									
3-05-011-01	General (Non-fugitive)	0.2	0.1	---	---	---	---	---	Cubic Yards Concrete Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Concrete Batching - SIC 3270, 1771, 3292</u></b>									
3-05-011-06	Transfer: Sand/Aggregate to Elevated Bins	0.029	0.03	---	---	---	---	---	Tons Material Processed
3-05-011-07	Cement Unloading: Storage Bins	0.24	0.14	---	---	---	---	---	Tons Material Processed
3-05-011-08	Weight Hopper Loading of Cement/Sand/Aggregate	0.02	0.01	---	---	---	---	---	Tons Material Processed
3-05-011-09	Mixer Loading of Cement/Sand/Aggregate	0.04	0.02	---	---	---	---	---	Tons Material Processed
3-05-011-10	Loading of Transit Mix Truck	0.02	0.01	---	---	---	---	---	Tons Material Processed
3-05-011-11	Loading of Dry-batch Truck	0.04	0.02	---	---	---	---	---	Tons Concrete Loaded
3-05-011-20	Asbestos/Cement Products	---	0.1	---	---	---	---	---	Tons Material Produced
<b><u>Industrial Processes: Mineral Products - Fiberglass Manufacturing - SIC 3296, 3229</u></b>									
3-05-012-01	Regenerative Furnace (Wool-type Fiber)	2.5 - 3	20.9	10	5	0.2	0.25	---	Tons Material Processed
3-05-012-02	Recuperative Furnace (Wool-type Fiber)	22	26.1	10	1.7	0.2	0.25	---	Tons Material Processed
3-05-012-03	Electric Furnace (Wool-type Fiber)	0.5	0.48	0.04	0.27	0.2	0.05	---	Tons Material Processed
3-05-012-04	Forming: Rotary Spun (Wool-type Fiber)	See App. C	54	---	---	---	---	---	footnote 40
3-05-012-05	Curing Oven: Rotary Spun (Wool-type Fiber)	---	9	---	---	---	---	---	Tons Material Processed
3-05-012-06	Cooling (Wool-type Fiber)	---	1.3	---	---	---	---	---	Tons Material Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Fiberglass Manufacturing - SIC 3296, 3229</u></b>									
3-05-012-07	Unit Melter Furnace (Wool-type Fiber)	9	8.6	0.6	0.3	---	0.25	---	Tons Material Processed
3-05-012-08	Forming: Flame Attenuation (Wool-type Fiber)	2	1.9	---	---	0.3	---	---	Tons Material Processed
3-05-012-09	Curing: Flame Attenuation (Wool-type Fiber)	6	6	---	2	7	3.5	---	Tons Material Processed
3-05-012-11	Regenerative Furnace (Textile-type Fiber)	16	15	30	20	0.2	1	---	Tons Material Processed
3-05-012-12	Recuperative Furnace (Textile-type Fiber)	2	1.9	3	20	0.2	0.5	---	Tons Material Processed
3-05-012-13	Unit Melter Furnace (Textile-type Fiber)	6	5.7	---	20	---	0.9	---	Tons Material Processed
3-05-012-14	Forming Process (Textile-type Fiber)	1	0.5	---	---	---	---	---	Tons Material Processed
3-05-012-15	Curing Oven (Textile-type Fiber)	1.2	1.2	---	2.6	---	1.5	---	Tons Material Processed
3-05-012-21	Raw Material: Unloading/Conveying	3	1.5	---	---	---	---	---	Tons Raw Material Processed
3-05-012-22	Raw Material: Storage Bins	0.2	0.1	---	---	---	---	---	Tons Raw Material Processed
3-05-012-23	Raw Material: Mixing/Weighing	0.6	0.3	---	---	---	---	---	Tons Raw Material Processed
<b><u>Industrial Processes: Mineral Products - Frit Manufacture - SIC 2899</u></b>									
3-05-013-05	Rotary Smelting Furnace	16	15	---	16	---	4.8	---	Tons Material Fed
3-05-013-06	Continuous Smelting Furnace	16	15	---	16	---	4.8	---	Tons Material Fed



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Glass Manufacture - SIC 3211, 3221, 3229</u></b>									
3-05-014-01	Furnace/General**	2	---	---	---	---	---	---	Tons Glass Produced
3-05-014-02	Container Glass: Melting Furnace	1.4	1.32	3.4	6.2	0.2	0.2	---	Tons Glass Produced
3-05-014-03	Flat Glass: Melting Furnace	2	1.9	3	8	0.1	0.1	---	Tons Glass Produced
3-05-014-04	Pressed and Blown Glass: Melting Furnace	17.4	16.5	5.6	8.5	0.3	0.2	---	Tons Glass Produced
3-05-014-06	Container Glass: Forming/Finishing	---	---	---	---	8.7	---	---	Tons Glass Produced
3-05-014-08	Pressed and Blown Glass: Forming/Finishing	---	---	---	---	9	---	---	Tons Glass Produced
3-05-014-14	Ground Cullet Beading Furnace	---	---	5.6	8.5	0.3	---	---	Tons Beaded Glass Produced
3-05-014-15	Glass Etching with Hydrofluoric Acid Solution	---	0.5	---	---	---	---	---	Hallons Etching Solution Consumed
<b><u>Industrial Processes: Mineral Products - Gypsum Manufacture - SIC 3275</u></b>									
3-05-015-01	Rotary Ore Dryer	0.16	0.013	---	---	---	---	---	Square Feet-Hours Gas Flow
3-05-015-02	Primary Grinder/Roller Mills	2.6	2.2	---	---	---	---	---	Tons Product Produced
3-05-015-03	Not Classified **	90	---	---	---	---	---	---	Tons Material Throughput
3-05-015-04	Conveying	---	0.15	---	---	---	---	---	Tons Material Throughput
3-05-015-05	Primary Crushing: Gypsum Ore	---	0.26	---	---	---	---	---	Tons Crude Gypsum Processed
3-05-015-06	Secondary Crushing: Gypsum Ore	---	1.13	---	---	---	---	---	Tons Crude Gypsum Processed
3-05-015-11	Continuous Kettle: Calciner	41	26	---	---	---	---	---	Tons Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Gypsum Manufacture - SIC 3275</u></b>									
3-05-015-12	Flash Calciner	37	14	---	---	---	---	---	Tons Product Produced
3-05-015-13	Impact Mill	100	85	---	---	---	---	---	Tons Product Produced
3-05-015-21	End Sawing (8 Ft.)	8	6.8	---	---	---	---	---	1000 Square Feet Board Sawed
3-05-015-22	End Sawing (12 Ft.)	5	4.25	---	---	---	---	---	1000 Square Feet Board Sawed
<b><u>Industrial Processes: Mineral Products - Lime Manufacture - SIC 3274</u></b>									
3-05-016-01	Primary Crushing	0.017	---	---	---	---	---	---	Tons Limestone Processed
3-05-016-02	Secondary Crushing/Screening	0.62	---	---	---	---	---	---	Tons Limestone Processed
3-05-016-03	Calcining: Vertical Kiln	8	5	8.2	2.8	0.02	---	---	Tons Lime Produced
3-05-016-04	Calcining: Rotary Kiln ** (See SCC Codes 3-05-016-18,-19,-20,- 21)	350	42	6.71	2.8	---	2	---	Tons Lime Produced
3-05-016-05	Calcining: Gas-fired Calcimatic Kiln	97	---	---	0.15	---	---	---	Tons Lime Produced
3-05-016-07	Raw Material Transfer and Conveying	---	0.18	---	---	---	---	---	Tons Limestone Processed
3-05-016-08	Raw Material Unloading	---	0.1	---	---	---	---	---	Tons Limestone Processed
3-05-016-09	Hydrator: Atmospheric	---	---	---	---	---	---	---	Tons Hydrated Lime Produced
3-05-016-10	Raw Material Storage Piles	---	1.4	---	---	---	---	---	Tons Limestone Processed
3-05-016-11	Product Cooler	6.8	---	---	---	---	---	---	Tons Lime Produced
3-05-016-12	Pressure Hydrator	0.1	0.07	---	---	---	---	---	Tons Hydrated Lime Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SO <sub>x</sub> Lbs/Unit	NO <sub>x</sub> Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Lime Manufacture - SIC 3274</u></b>									
3-05-016-15	Product Transfer and Conveying	2.2	---	---	---	---	---	---	Tons Product Loaded
3-05-016-16	Primary Screening	---	---	---	---	---	---	---	Tons Limestone Produced
3-05-016-18	Calcining: Coal-fired Rotary Kiln	350	42	<sup>10</sup> 5.4	3.1	---	1.5	---	Tons Lime Manufactured
3-05-016-19	Calcining: Gas-fired Rotary Kiln	---	---	---	3.5	---	2.2	---	Tons Lime Manufactured
3-05-016-20	Calcining: Coal- and Gas-fired Rotary Kiln	80	9.6	---	<sup>13</sup> 2.7	---	<sup>13</sup> 0.83	---	Tons Lime Manufactured
3-05-016-21	Calcining: Coal- and Coke-fired Rotary Kiln	---	---	---	---	---	---	---	Tons Lime Manufactured
3-05-016-22	Calcining: Coal-fired Rotary Preheater Kiln	---	---	---	---	---	---	---	Tons Lime Manufactured
3-05-016-23	Calcining: Gas-fired Parallel Flow Regenerative Kiln	---	---	<sup>10, 13</sup> 0.0012	<sup>13</sup> 0.24	---	<sup>13</sup> 0.45	---	Tons Lime Manufactured
3-05-016-24	Conveyor Transfer - Primary Crushed Material	---	---	---	---	---	---	---	Tons Lime Processed
3-05-016-25	Secondary/Tertiary Screening	---	---	---	---	---	---	---	Tons Lime Processed
3-05-016-26	Product Loading, Enclosed Truck	0.61	---	---	---	---	---	---	Tons Lime Processed
3-05-016-27	Product Loading, Open Truck	1.5	---	---	---	---	---	---	Tons Lime Processed
<b><u>Industrial Processes: Mineral Products - Mineral Wool - SIC 3296</u></b>									
3-05-017-01	Cupola	16	20.2	0.02	1.6	---	250	---	footnote 41
3-05-017-02	Reverberatory Furnace	4.8	4.6	---	---	---	---	---	footnote 41

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Mineral Wool - SIC 3296</u></b>									
3-05-017-03	Blow Chamber	12	15.6	10 0.087	---	0.9	---	---	footnote 41
3-05-017-04	Curing Oven	3.6	3.8	10 1.2	0.16	1	---	---	footnote 41
3-05-017-05	Cooler	2.4	1.9	10 0.068	---	0.04	---	---	footnote 41
<b><u>Industrial Processes: Mineral Products - Perlite Manufacturing - SIC 3295</u></b>									
3-05-018-01	Vertical Furnace	21	19	---	---	---	---	---	Tons Material Charged
<b><u>Industrial Processes: Mineral Products - Phosphate Rock - SIC 1475</u></b>									
3-05-019-01	Drying	5.7	4.8	---	---	---	0.34	---	Tons Phosphate Rock Processed
3-05-019-02	Grinding	1.5	0.93	---	---	---	---	---	Tons Phosphate Rock Processed
3-05-019-03	Transfer/Storage	2	1	---	---	---	---	---	Tons Phosphate Rock Processed
3-05-019-04	Open Storage	40	14.4	---	---	---	---	---	Tons Phosphate Rock Processed
3-05-019-05	Calcining	15	15	---	---	---	---	---	Tons Phosphate Rock Processed
3-05-019-07	Ball Mill	1.46	0.45	---	---	---	---	---	Tons Phosphate Rock Milled
<b><u>Industrial Processes: Mineral Products - Stone Quarrying - Processing (See also 305320) - SIC 1411, 1422, 1423, 1429, 1499</u></b>									
3-05-020-01	Primary Crushing	---	7 0.0007	---	---	---	---	---	Tons Raw Material Processed
3-05-020-02	Secondary Crushing/Screening	---	42 0.015	---	---	---	---	---	Tons Raw Material Processed
3-05-020-05	Fines Mill	---	42 0.015	---	---	---	---	---	Tons Raw Material Processed
3-05-020-06	Miscellaneous Operations: Screen/Convey/Handling	---	42 0.0014	---	---	---	---	---	Tons Raw Material Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Stone Quarrying - Processing (See also 305320) - SIC 1411, 1422, 1423, 1429, 1499</u></b>									
3-05-020-07	Open Storage	---	0.12	---	---	---	---	---	Ton-Years Product Stored
			<b>42</b>						
3-05-020-10	Drilling	---	0.00008	---	---	---	---	---	Tons Raw Material Processed
3-05-020-11	Hauling	---	6.2	---	---	---	---	---	Miles Vehicle Travelled
3-05-020-12	Drying	---	5	---	---	---	---	---	Tons Stone Dried
			<b>42</b>						
3-05-020-21	Fines Screening	---	0.071	---	---	---	---	---	Tons Raw Material Processed
			<b>42</b>						
3-05-020-31	Truck Unloading	---	0.000016	---	---	---	---	---	Tons Raw Material Processed
			<b>42</b>						
3-05-020-32	Truck Loading: Conveyor	---	0.0001	---	---	---	---	---	Tons Raw Material Processed
<b><u>Industrial Processes: Mineral Products - Potash Production - SIC 1474</u></b>									
3-05-022-01	Mine: Grinding/Drying	---	13.5	---	---	---	---	---	Tons Ore Processed
<b><u>Industrial Processes: Mineral Products - Construction Sand and Gravel - SIC 1442, 1446</u></b>									
3-05-025-01	Total Plant: General **	0.1	---	---	---	---	---	---	Tons Product Produced
3-05-025-02	Aggregate Storage	---	0.12	---	---	---	---	---	Tons Product Produced
3-05-025-03	Material Transfer and Conveying	0.029	0.0064	---	---	---	---	---	Tons Product Produced
3-05-025-04	Hauling	---	6.2	---	---	---	---	---	Miles Vehicle Travelled
3-05-025-05	Pile Forming: Stacker	---	0.06	---	---	---	---	---	Tons Product Produced
3-05-025-06	Bulk Loading	0.02	0.0024	---	---	---	---	---	Tons Product Produced
3-05-025-07	Storage Piles	---	1329	---	---	---	---	---	Acre-Years Storage Area Existing

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SO <sub>x</sub> Lbs/Unit	NO <sub>x</sub> Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Construction Sand and Gravel - SIC 1442, 1446</u></b>									
3-05-025-11	Screening	---	0.12	---	---	---	---	---	Tons Product Produced
<b><u>Industrial Processes: Mineral Products - Industrial Sand and Gravel - SIC 1423, 3273</u></b>									
3-05-027-13	Screening: Size Classification	---	---	---	---	---	---	---	Tons Material Processed
3-05-027-20	Sand Drying: Gas- or Oil-fired Rotary or Fluidized Bed Dryer	2	---	---	0.031	---	---	---	Tons Dried Material Produced
3-05-027-60	Sand Handling, Transfer, and Storage	---	---	---	---	---	---	---	Tons Product Stored
<b><u>Industrial Processes: Mineral Products - Lightweight Aggregate Manufacture - SIC 3295</u></b>									
3-05-029-10	Rotary Kiln	130	---	5.6	---	---	0.59	---	Tons Feed Fed
3-05-029-20	Clinker Cooler	---	---	---	---	---	---	---	Tons Feed Fed
<b><u>Industrial Processes: Mineral Products - Vermiculite - SIC 1499</u></b>									
3-05-033-01	General	---	---	0.47	0.08	---	---	---	Tons Product Produced
3-05-033-21	Vermiculite Concentrate Drying: Rotary Dryer, Gas-fired	---	---	---	---	---	---	---	1000 Pounds Dryer Feed Fed
3-05-033-22	Vermiculite Concentrate Drying: Rotary Dryer, Oil-fired	---	---	---	---	---	---	---	1000 Pounds Dryer Feed Fed
3-05-033-36	Screening: Size Classification of Crushed Vermiculite Concentrate	---	---	---	---	---	---	---	1000 Pounds Concentrate Processed
3-05-033-41	Conveying of Vermiculite Concentrate to Storage	---	---	---	---	---	---	---	1000 Pounds Concentrate Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Vermiculite - SIC 1499</u></b>									
3-05-033-51	Exfoliation of Vermiculite Concentrate: Gas-fired Vertical Furnace	---	---	---	---	---	---	---	1000 Pounds Product Produced
3-05-033-61	Product Grinding: Grinding of Exfoliated Vermiculite	---	---	---	---	---	---	---	1000 Pounds Product Produced
<b><u>Industrial Processes: Mineral Products - Feldspar - SIC 1459</u></b>									
3-05-034-01	Ball Mill	25.8	8.4	---	---	---	---	---	Tons Rock Milled
3-05-034-02	Dryer	---	---	---	---	---	---	---	Tons Material Processed
<b><u>Industrial Processes: Mineral Products - Abrasive Grain Processing - SIC 3291</u></b>									
3-05-035-05	Washing/Drying	---	---	---	---	---	---	---	Tons Material Processed
<b><u>Industrial Processes: Mineral Products - Clay processing: Kaolin - SIC multiple (See Appendix D)</u></b>									
3-05-041-31	Drying, spray dryer	---	---	---	---	---	---	---	Tons Clay Produced
3-05-041-32	Drying, apron dryer	1.2	---	---	---	---	---	---	Tons Clay Produced
3-05-041-40	Calcining, rotary calciner	34	16	---	---	---	---	---	Tons Clay Produced
3-05-041-42	Calcining, flash calciner	1100	560	---	---	---	---	---	Tons Clay Produced
<b><u>Industrial Processes: Mineral Products - Clay processing: Ball clay - SIC multiple (See Appendix D)</u></b>									
3-05-042-33	Drying, vibrating grate dryer	---	---	---	---	---	---	---	Tons Clay Processed
<b><u>Industrial Processes: Mineral Products - Clay processing: Fire clay - SIC multiple (See Appendix D)</u></b>									
3-05-043-30	Drying, rotary dryer	65	16	---	---	---	---	---	Tons Clay Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Clay processing: Fire clay - SIC multiple (See Appendix D)</u></b>									
3-05-043-40	Calcining, rotary calciner	120	30	---	13 1.7	---	---	---	Tons Clay Processed
<b><u>Industrial Processes: Mineral Products - Clay processing: Bentonite - SIC multiple (See Appendix D)</u></b>									
3-05-044-30	Drying, rotary dryer	290	20	---	---	---	---	---	Tons Clay Produced
<b><u>Industrial Processes: Mineral Products - Talc Processing - SIC 1499, 3295</u></b>									
3-05-089-09	Natural Gas Fired Crude Ore Dryer	---	---	---	---	---	---	---	1000 Pounds Crude Oil Dried
3-05-089-11	Primary crusher	---	---	---	---	---	---	---	1000 Pounds Talc Produced
3-05-089-12	Crushed Talc Railcar Loading	---	---	---	---	---	---	---	1000 Pounds Talc Loaded
3-05-089-14	Crushed Talc Storage Bin Loading	---	---	---	---	---	---	---	1000 Pounds Talc Loaded
3-05-089-17	Screening Oversize Ore to Return to Primary Crusher	---	---	---	---	---	---	---	1000 Pounds Talc Screened
3-05-089-45	Grinding of Dried Talc	---	---	---	---	---	---	---	1000 Pounds Talc Processed
3-05-089-47	Grinding/Drying of Talc with Heated Makeup Air	---	---	---	---	---	---	---	1000 Pounds Talc Processed
3-05-089-49	Ground Talc Storage Bin Loading	---	---	---	---	---	---	---	1000 Pounds Talc Loaded
3-05-089-50	Air Classifier - Size Classification of Ground Talc	---	---	---	---	---	---	---	1000 Pounds Talc Processed
3-05-089-55	Pellet Dryer	---	---	---	---	---	---	---	1000 Pounds Talc Processed
3-05-089-58	Pneumatic Conveyor Vents	---	---	---	---	---	---	---	1000 Pounds Talc Conveyed
3-05-089-85	Final Product Storage Bin Loading	---	---	---	---	---	---	---	1000 Pounds Talc Loaded



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>									
<b><u>Industrial Processes: Mineral Products - Talc Processing - SIC 1499, 3295</u></b>									
3-05-089-88	Packaging	---	---	---	---	---	---	---	1000 Pounds Talc Processed
<b><u>Industrial Processes: Mineral Products - Coal Mining, Cleaning, and Material Handling (See 305010) - SIC 4911</u></b>									
3-05-310-01	Fluidized Bed	26000	<sup>7</sup> 26040	1400	160	98	---	---	1000 Tons Wet Coal Dried
3-05-310-02	Flash or Suspension	16000	---	520	---	---	---	---	footnote 39
3-05-310-03	Multilouvered	3700	<sup>7</sup> 3780	---	---	---	---	---	1000 Tons Wet Coal Dried
3-05-310-13	Air Tables	---	---	---	---	---	---	---	1000 Tons Coal Shipped
<b><u>Industrial Processes: Mineral Products - Fuel Fired Equipment - SIC 1100, 1400, 2900, 4400</u></b>									
3-05-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-05-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-05-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-05-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-05-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-05-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-05-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Petroleum Industry</u></b>									
<b><u>Industrial Processes: Petroleum Industry - Process Heaters - SIC 2911</u></b>									
3-06-001-01	Oil-fired **	<sup>2</sup> 504 S	---	<sup>2</sup> 6678 S	2310	12.6	---	0.0000021	footnote 43
3-06-001-02	Gas-fired **	---	---	<sup>2</sup> 0.95 S	0.14	---	0.03	---	1000 Cubic Feet Gas Burned
3-06-001-03	Oil-fired	<sup>2</sup> 12 S	<sup>2</sup> 7.4 S	<sup>2</sup> 158.6 S	55	0.3	5	---	1000 Gallons Oil Burned
3-06-001-04	Gas-fired	1.9	3	---	100	5.5	84	---	Million Cubic Feet Gas Burned
3-06-001-05	Natural Gas-fired	3	3	0.6	140	2.8	35	---	Million Cubic Feet Natural Gas Burned
3-06-001-06	Process Gas-fired	3	3	---	140	2.8	35	---	Million Cubic Feet Process Gas Burned
3-06-001-07	LPG-fired	0.27	0.27	---	12.8	0.26	3.2	---	1000 Gallons Liquefied Petroleum Gas (LPG) Burn
3-06-001-08	Landfill Gas-fired	---	---	---	---	2.8	---	---	Million Cubic Feet Landfill Gas Burned
3-06-001-11	Oil-fired (No. 6 Oil) > 100 Million Btu Capacity	<sup>2</sup> 13 S	---	<sup>2</sup> 159.3 S	67	---	5	---	1000 Gallons Residual Oil (No. 6) Burned
<b><u>Industrial Processes: Petroleum Industry - Catalytic Cracking Units - SIC 2911</u></b>									
3-06-002-01	Fluid Catalytic Cracking Unit	242	169.4	468.2	71	220	13700	---	1000 Barrels Fresh Feed Processed
<b><u>Industrial Processes: Petroleum Industry - Catalytic Cracking Units - SIC 2911</u></b>									
3-06-003-01	Thermal Catalytic Cracking Unit	17	11.9	60	5	87	3800	---	1000 Barrels Fresh Feed Processed
<b><u>Industrial Processes: Petroleum Industry - Blowdown Systems - SIC 2911</u></b>									
3-06-004-01	Blowdown System with Vapor Recovery System with Flaring	---	---	26.9	18.9	0.8	4.3	---	1000 Barrels Refinery Feed Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Petroleum Industry</u></b>									
<b><u>Industrial Processes: Petroleum Industry - Blowdown Systems - SIC 2911</u></b>									
3-06-004-02	Blowdown System w/o Controls	---	---	---	---	580	---	---	1000 Barrel-Years Refinery Crude Feed Capacity
<b><u>Industrial Processes: Petroleum Industry - Wastewater Treatment - SIC 2911</u></b>									
3-06-005-03	Process Drains and Wastewater Separators	---	---	---	---	5	---	---	1000 Gallons Wastewater Processed
3-06-005-04	Process Drains and Wastewater Separators	---	---	---	---	200	---	---	1000 Barrels Refinery Feed Processed
3-06-005-05	Wastewater Treatment w/o Separator	---	---	---	---	0.03	---	---	1000 Gallons Wastewater Processed
3-06-005-06	Wastewater Treatment w/o Separator	---	---	---	---	0.7	---	---	1000 Barrels Refinery Feed Processed
<b><u>Industrial Processes: Petroleum Industry - Vacuum Distillate Column Condensers - SIC 2911</u></b>									
3-06-006-02	Vacuum Distillation Column Condenser	---	---	---	---	50	---	---	1000 Barrels Vacuum Feed Processed
3-06-006-03	Vacuum Distillation Column Condenser	---	---	---	---	18	---	---	1000 Barrels Refinery Feed Processed
<b><u>Industrial Processes: Petroleum Industry - Cooling Towers - SIC 2911</u></b>									
3-06-007-01	Cooling Towers	---	---	---	---	6	---	---	Million Gallons Cooling Water Circulated
3-06-007-02	Cooling Towers	---	---	---	---	10	---	---	1000 Barrels Refinery Feed Processed
<b><u>Industrial Processes: Petroleum Industry - Fugitive Emissions - SIC 2911</u></b>									
3-06-008-11	Pipeline Valves: Gas Streams	---	---	---	---	516.8	---	---	Each-Year Valve Operating

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Petroleum Industry</u></b>									
<b><u>Industrial Processes: Petroleum Industry - Fugitive Emissions - SIC 2911</u></b>									
3-06-008-12	Pipeline Valves: Light Liquid/Gas Streams	---	---	---	---	210.2	---	---	Each-Year Valve Operating
3-06-008-13	Pipeline Valves: Heavy Liquid Streams	---	---	---	---	4.38	---	---	Each-Year Valve Operating
3-06-008-14	Pipeline Valves: Hydrogen Streams	---	---	---	---	157.7	---	---	Each-Year Valve Operating
3-06-008-15	Open-ended Valves: All Streams	---	---	---	---	43.8	---	---	Each-Year Valve Operating
3-06-008-16	Flanges: All Streams	---	---	---	---	4.9	---	---	Each-Year Flange Operating
3-06-008-17	Pump Seals: Light Liquid/Gas Streams	---	---	---	---	2190	---	---	Each-Year Seal Operating
3-06-008-18	Pump Seals: Heavy Liquid Streams	---	---	---	---	403	---	---	Each-Year Seal Operating
3-06-008-19	Compressor Seals: Gas Streams	---	---	---	---	12260	---	---	Each-Year Seal Operating
3-06-008-20	Compressor Seals: Heavy Liquid Streams	---	---	---	---	963.6	---	---	Each-Year Seal Operating
3-06-008-21	Drains: All Streams	---	---	---	---	613.2	---	---	Each-Year Drain Operating
3-06-008-22	Vessel Relief Valves: All Streams	---	---	---	---	3154	---	---	Each-Year Valve Operating
<b><u>Industrial Processes: Petroleum Industry - Flares - SIC 2900</u></b>									
3-06-009-03	Natural Gas	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-06-009-04	Process Gas	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Petroleum Industry</u></b>									
<b><u>Industrial Processes: Petroleum Industry - Sludge Converter - SIC 2999</u></b>									
3-06-010-01	General	---	---	---	---	35.6	---	---	Tons Material Processed
<b><u>Industrial Processes: Petroleum Industry - Asphalt Blowing - SIC 2911</u></b>									
3-06-011-01	General	---	---	---	---	60	---	---	Tons Asphalt Produced
<b><u>Industrial Processes: Petroleum Industry - Fluid Coking Units - SIC 2911</u></b>									
3-06-012-01	General	---	366	---	---	16	---	---	1000 Barrels Fresh Feed Processed
<b><u>Industrial Processes: Petroleum Industry - Petroleum Coke Calcining - SIC 2911</u></b>									
3-06-014-01	Coke Calciner	---	---	16	1.1	0.7	---	---	Tons Raw Coke Processed
<b><u>Industrial Processes: Petroleum Industry - Incinerators - SIC 2911</u></b>									
3-06-099-01	Distillate Oil (No. 2)	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-06-099-02	Residual Oil	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-06-099-03	Natural Gas	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-06-099-04	Process Gas	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Sulfate (Kraft) Pulping - SIC 2611, 2621, 2631</u></b>									
3-07-001-02	Washer/Screens	---	---	0.01	---	0.2	---	---	Tons Air-Dried Unbleached Pulp Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Sulfate (Kraft) Pulping - SIC 2611, 2621, 2631</u></b>									
3-07-001-04	Recovery Furnace/Direct Contact Evaporator	180	168	7	2	1.95	11	---	Tons Air-Dried Unbleached Pulp Produced
3-07-001-05	Smelt Dissolving Tank	7	6.2	0.2	1	0.16	<sup>13</sup> See App. C	---	Tons Air-Dried Unbleached Pulp Produced
3-07-001-06	Lime Kiln	56	9.4	0.3	2.8	0.25	0.1	0.0001088	Tons Air-Dried Unbleached Pulp Produced
3-07-001-07	Turpentine Condenser	---	---	---	---	0.07	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-001-08	Fluid Bed Calciner	---	50.4	0.3	2.8	0.25	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-001-09	Liquor Oxidation Tower	---	---	0.02	---	0.45	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-001-10	Recovery Furnace/Indirect Contact Evaporator	230	230	---	1.9	0.8	11	---	Tons Air-Dried Unbleached Pulp Produced
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Sulfite Pulping - SIC 2611, 2621, 2631</u></b>									
3-07-002-03	Digester/Blow Pit/Dump Tank: All Bases except Calcium	---	---	40	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-11	Digester/Blow Pit/Dump Tank: Calcium	---	---	67	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-13	Digester/Blow Pit/Dump Tank: MgO with Process Change	---	---	0.2	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-14	Digester/Blow Pit/Dump Tank: NH3 with Process Change	---	---	0.4	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-15	Digester/Blow Pit/Dump Tank: Na with Process Change	---	---	2	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Sulfite Pulping - SIC 2611, 2621, 2631</u></b>									
3-07-002-21	Recovery System: MgO	2	---	9	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-22	Recovery System: NH3	0.7	---	7	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-23	Recovery System: Na	4	---	2	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-31	Acid Plant: NH3	---	---	0.3	---	3.5	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-32	Acid Plant: Na	---	---	0.2	---	3.5	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-33	Acid Plant: Ca	---	---	8	---	3.5	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-002-34	Knotters/Washers/Screens/etc.	---	---	12	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Neutral Sulfite Semichemical Pulping - SIC 2611, 2621, 2631</u></b>									
3-07-003-01	Digester/Blow Pit/Dump Tank	---	---	4	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-003-03	Fluid Bed Reactor	---	282	---	1.6	0.25	---	---	Tons Air-Dried Unbleached Pulp Produced
3-07-003-04	Sulfur Burner/Absorbers	---	---	20	---	---	---	---	Tons Air-Dried Unbleached Pulp Produced
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Pulpboard Manufacture - SIC 2611, 2621, 2631, 2493</u></b>									
3-07-004-01	Paperboard: General	---	---	---	---	0.2	---	---	Tons Finished Product Produced
3-07-004-02	Fiberboard: General	0.6	0.35	---	---	2.5	---	---	Tons Finished Product Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Wood Pressure Treating - SIC 2491</u></b>									
3-07-005-30	Creosote	---	---	---	---	0.00074	---	---	Cubic Feet Wood Treated
3-07-005-40	Creosote	---	---	---	---	0.0058	---	---	Cubic Feet Wood Treated
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Particleboard Manufacture - SIC 2493, 3553</u></b>									
				<b>10</b>					
3-07-006-02	Direct Wood-fired Rotary Dryer, Unspecified Pines, <730F Inlet Air	3.9	0.69	0.002	1.1	0.95	1.6	---	Tons Oven-dried Wood Produced
				<b>10</b>					
3-07-006-04	Direct Wood-fired Rotary Dryer, Unspecified Pines, >900F Inlet Air	3.9	0.69	0.002	1.1	8.2	1.6	---	Tons Oven-dried Wood Produced
				<b>10</b>					
3-07-006-06	Direct Wood-fired Rotary Dryer, Southern Yellow Pine	8	0.9	0.002	1.1	1.1	1.6	---	Tons Oven-dried Wood Produced
				<b>10</b>					
3-07-006-10	Direct Wood-fired Rotary Dryer, Hardwoods	2.5	---	0.002	1.1	0.35	1.6	---	Tons Oven-dried Wood Produced
3-07-006-11	Direct Natural Gas-Fired Rotary Dryer, Unspecified Pines	1.3	---	---	0.031	0.9	0.12	---	Tons Oven-dried Wood Produced
3-07-006-21	Direct Wood-fired Rotary Final Dryer, Unspecified Pines	---	---	---	---	---	0.75	---	Tons Oven-dried Wood Produced
3-07-006-28	Direct Wood-fired Rotary Predryer, Douglas Fir	---	---	---	2.1	---	0.94	---	Tons Oven-dried Wood Produced
3-07-006-51	Batch Hot Press, Urea Formaldehyde Resin	0.03	0.016	---	---	0.94	0.09	---	1000 Square Feet 3/4-inch Particleboard Produce
3-07-006-61	Particleboard Board Cooler, Urea- Formaldehyde Resin	0.014	0.0034	---	---	0.27	---	---	1000 Square Feet 3/4-inch Particleboard Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Plywood Operations - SIC 2435, 2436, 2493</u></b>									
3-07-007-03	Particleboard Drying(See 3-07-006 For More Detailed Particleboard SCC)	0.6	0.35	---	---	---	---	---	Tons Material Processed
3-07-007-04	Waferboard Dryer (See 3-07-010 For More Detailed OSB SCCs)	---	---	1.71	11.4	40.9	---	---	1000 Pounds Wafers/Chips Dried
3-07-007-05	Hardboard: Coe Dryer	---	---	---	0.3	---	---	---	Tons Dry Product Produced
3-07-007-06	Hardboard: Predryer	---	---	---	0.07	---	---	---	Tons Dry Product Produced
3-07-007-09	Hardboard: Bake Oven	---	---	---	0.1	0.003	---	---	Tons Product Produced
3-07-007-11	Fir: Sapwood: Steam-fired Dryer	---	---	---	---	0.45	---	---	10,000 Square Feet 3/8-inch Plywood Produced
3-07-007-12	Fir: Sapwood: Gas-fired Dryer	---	---	---	---	7.53	---	---	10,000 Square Feet 3/8-inch Plywood Produced
3-07-007-13	Fir: Heartwood Plywood Veneer Dryer	---	---	---	---	1.3	---	---	10,000 Square Feet 3/8-inch Plywood Produced
3-07-007-14	Larch Plywood Veneer Dryer	---	---	---	---	0.19	---	---	10,000 Square Feet 3/8-inch Plywood Produced
3-07-007-15	Southern Pine Plywood Veneer Dryer	---	---	---	---	2.94	---	---	10,000 Square Feet 3/8-inch Plywood Produced
<b>10</b>									
3-07-007-40	Direct Wood-Fired Dryer: Non-specified Pine Species Veneer	---	---	0.058	0.24	3.3	5.1	---	1000 Square Feet 3/8-inch Plywood Produced
<b>10</b>									
3-07-007-44	Direct Wood-Fired Dryer: Hemlock Veneer	---	---	0.058	0.24	0.7	5.1	---	1000 Square Feet 3/8-inch Plywood Produced
<b>10</b>									
3-07-007-46	Direct Wood-Fired Dryer: Non-specified Fir Species Veneer	---	---	0.058	0.24	---	5.1	---	1000 Square Feet 3/8-inch Plywood Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Plywood Operations - SIC 2435, 2436, 2493</u></b>									
3-07-007-47	Direct Wood-Fired Dryer: Douglas Fir Veneer	---	---	---	---	0.5	---	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-50	Direct Natural Gas-Fired Dryer: Non-specified Pine Species Veneer	0.079	---	---	0.012	2.1	0.57	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-60	Indirect Heated Dryer: Non-specified Pine Species Veneer	0.35	---	---	---	2.7	---	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-66	Indirect Heated Dryer: Non-specified Fir Species Veneer	---	---	---	---	---	---	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-67	Indirect Heated Dryer: Douglas Fir Veneer	0.07	---	---	---	1.3	---	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-69	Indirect Heated Dryer: Poplar Veneer	---	---	---	---	0.033	---	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-70	Radio Frequency Heated Dryer: Non-specified Pine Species	0.005	---	---	---	0.22	---	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-80	Plywood Press: Phenol-formaldehyde Resin	0.12	---	---	---	0.33	---	---	1000 Square Feet 3/8-inch Plywood Produced
3-07-007-81	Plywood Press: Urea-formaldehyde Resin	---	---	---	---	0.021	---	---	1000 Square Feet 3/8-inch Plywood Produced
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Sawmill Operations - SIC 2421, 2426, 2429, 2411</u></b>									
3-07-008-01	Log Debarking	0.02	0.011	---	---	---	---	---	Tons Logs Processed
3-07-008-02	Log Sawing	0.35	0.2	---	---	---	---	---	Tons Logs Processed
3-07-008-03	Sawdust Pile Handling	1	0.36	---	---	---	---	---	Tons Sawdust Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Sawmill Operations - SIC 2421, 2426, 2429, 2411</u></b>									
3-07-008-04	Sawing: Cyclone Exhaust	2.25	0.9	---	---	---	---	---	SCFM-Year Average Airflow Processed
3-07-008-05	Planning/Trimming: Cyclone Exhaust	2.25	0.9	---	---	---	---	---	SCFM-Year Average Airflow Processed
3-07-008-06	Sanding: Cyclone Exhaust	4.1	2	---	---	---	---	---	SCFM-Year Average Airflow Processed
3-07-008-07	Sanderdust: Cyclone Exhaust	5	2.5	---	---	---	---	---	Hour Equipment Operated
3-07-008-08	Other Cyclones: Exhaust	2	0.8	---	---	---	---	---	Hour Equipment Operated
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Medium Density Fiberboard (MDF) Manufacture - SIC 2493</u></b>									
3-07-009-21	Direct Wood-fired Tube Dryer, Unspecified Pines	10	1.6	---	---	6.6	4	---	Tons Oven-dried Wood Produced
3-07-009-25	Direct Wood-fired Tube Dryer, Hardwoods	---	---	---	---	6.5	4	---	Tons Oven-dried Wood Produced
3-07-009-31	Indirect-heated Tube Dryer, Unspecified Pines	1.4	---	---	---	---	---	---	Tons Oven-dried Wood Produced
3-07-009-35	Indirect-heated Tube Dryer, Hardwoods	---	---	---	---	4.7	---	---	Tons Oven-dried Wood Produced
3-07-009-39	Indirect-heated Tube Dryer, 50% Softwood, 50% Hardwood	1.5	0.28	---	---	2.2	---	---	Tons Oven-dried Wood Produced
3-07-009-50	Continuous Hot Press, UF Resin	0.17	---	---	---	1.4	---	---	1000 Square Feet 3/4-inch Medium Density Fiberboard Produced
3-07-009-60	Batch Hot Press, UF Resin	0.18	0.075	---	0.03	0.69	0.034	---	1000 Square Feet 3/4-inch Medium Density Fiberb

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Pulp and Paper and Wood Products</u></b>									
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Medium Density Fiberboard (MDF) Manufacture - SIC 2493</u></b>									
3-07-009-71	MDF Board Cooler, UF Resin	0.054	0.0038	---	---	0.2	---	---	1000 Square Feet 3/4-inch Medium Density Fiberboard Produced
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Oriented Strandboard (OSB) Manufacture - SIC 2493</u></b>									
3-07-010-01	Direct Wood-fired Rotary Dryer, Unspecified Pines	3.9	---	10, 13 0.014	0.65	8.6	5.8	---	Tons Oven-dried Wood Produced
3-07-010-08	Direct Wood-fired Rotary Dryer, Aspen	---	---	10, 13 0.014	0.65	2.2	5.8	---	Tons Oven-dried Wood Produced
3-07-010-10	Direct Wood-fired Rotary Dryer, Hardwoods	---	---	10, 13 0.014	0.65	1.6	5.8	---	Tons Oven-dried Wood Produced
3-07-010-20	Direct Natural Gas-fired Rotary Dryer, Hardwoods	---	---	---	0.68	---	0.72	---	Tons Oven-dried Wood Produced
3-07-010-53	Hot Press, Phenol-Formaldehyde Resin	0.12	0.1	10 0.037	0.038	0.52	0.11	---	1000 Square Feet 3/8-inch Oriented Strand Board
3-07-010-55	Hot Press, Methylene Diphenyl Diisocyanate Resin	0.16	---	10 0.037	0.038	0.45	0.11	---	1000 Square Feet 3/8-inch Oriented Strand Board
3-07-010-57	Hot Press, PF Resin (surface layers) / MDI Resin (core layers)	0.37	0.11	10 0.037	0.038	0.56	0.11	---	1000 Square Feet 3/8-inch Oriented Strand Board
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Miscellaneous Wood Working Operations - SIC 2420, 2430</u></b>									
3-07-030-01	Wood Waste Storage Bin Vent	1	0.58	---	---	---	---	---	Tons Wood Waste Processed
3-07-030-02	Wood Waste Storage Bin Loadout	2	1.2	---	---	---	---	---	Tons Wood Waste Processed
<b><u>Industrial Processes: Pulp and Paper and Wood Products - Fuel Fired Equipment - SIC 2400, 2500, 2600, 2700</u></b>									
3-07-900-01	Distillate Oil (No. 2): Process Heaters	---	---	2 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Pulp and Paper and Wood Products**

**Industrial Processes: Pulp and Paper and Wood Products - Fuel Fired Equipment - SIC 2400, 2500, 2600, 2700**

3-07-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-07-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-07-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-07-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-07-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-07-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned

**Industrial Processes - Rubber and Miscellaneous Plastics Products**

**Industrial Processes: Rubber and Miscellaneous Plastics Products - Tire Manufacture - SIC 3011**

3-08-001-01	Undertread and Sidewall Cementing	---	---	---	---	229.5	---	---	1000 Each Tires Produced
3-08-001-02	Bead Dipping	---	---	---	---	13.3	---	---	1000 Each Tires Produced
3-08-001-03	Bead Swabbing	---	---	---	---	18.3	---	---	1000 Each Tires Produced
3-08-001-04	Tire Building	---	---	---	---	72.6	---	---	1000 Each Tires Produced
3-08-001-05	Tread End Cementing	---	---	---	---	33.2	---	---	1000 Each Tires Produced
3-08-001-06	Green Tire Spraying	---	---	---	---	301.8	---	---	1000 Each Tires Produced
3-08-001-07	Tire Curing	---	---	---	---	4.4	---	---	1000 Each Tires Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Rubber and Miscellaneous Plastics Products</u></b>									
<b><u>Industrial Processes: Rubber and Miscellaneous Plastics Products - Tire Manufacture - SIC 3011</u></b>									
3-08-001-08	Solvent Mixing	---	---	---	---	10.8	---	---	Tons Solvent Used
3-08-001-20	Undertread and Sidewall Cementing	---	---	---	---	1800	---	---	Tons Solvent Used
3-08-001-21	Tread End Cementing	---	---	---	---	1800	---	---	Tons Solvent Used
3-08-001-22	Bead Dipping	---	---	---	---	1800	---	---	Tons Solvent Used
3-08-001-23	Green Tire Spraying	---	---	---	---	1840	---	---	Tons Solvent Used
<b><u>Industrial Processes: Rubber and Miscellaneous Plastics Products - Tire Retreading - SIC 7534</u></b>									
3-08-005-01	Tire Buffing Machines	---	---	---	---	600	---	---	1000 Each Tires Processed
<b><u>Industrial Processes: Rubber and Miscellaneous Plastics Products - Fiberglass Resin Products - SIC 3080</u></b>									
3-08-007-01	Plastics Machining: Drilling/Sanding/Sawing/etc.	---	---	---	---	13	---	---	Tons Material Processed
3-08-007-03	Solvent Consumption	---	---	---	---	649	---	---	Tons Solvent Used
3-08-007-04	Adhesive Consumption	---	---	---	---	649	---	---	Tons Adhesive Applied
<b><u>Industrial Processes: Rubber and Miscellaneous Plastics Products - Fuel Fired Equipment - SIC 3000, 7500</u></b>									
3-08-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-08-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-08-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Rubber and Miscellaneous Plastics Products</u></b>									
<b><u>Industrial Processes: Rubber and Miscellaneous Plastics Products - Fuel Fired Equipment - SIC 3000, 7500</u></b>									
3-08-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-08-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-08-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-08-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
<b><u>Industrial Processes - Fabricated Metal Products</u></b>									
<b><u>Industrial Processes: Fabricated Metal Products - General Processes - SIC 3400</u></b>									
3-09-001-98	Other Not Classified	---	---	---	---	---	---	---	Tons Steel Produced
<b><u>Industrial Processes: Fabricated Metal Products - Abrasive Blasting of Metal Parts - SIC 3400</u></b>									
3-09-002-02	Sand Abrasive	<sup>7</sup> See App. C	<sup>7</sup> 27	---	---	---	---	---	1000 Pounds Abrasive Used
3-09-002-04	Garnet Abrasive	---	---	---	---	---	---	---	1000 Pounds Abrasive Used
<b><u>Industrial Processes: Fabricated Metal Products - Electroplating Operations - SIC 3471</u></b>									
3-09-010-01	Entire Process: General	---	---	---	0.009	0.026	---	---	Square Feet Product Plated
3-09-010-18	Hard Chromium - Electroplating Tank	---	<sup>7</sup> 0.25	---	---	---	---	---	footnote 44
3-09-010-28	Decorative Chromium - Electroplating Tank	---	<sup>7</sup> 0.069	---	---	---	---	---	footnote 44
3-09-010-38	Chromic Acid Anodizing - Anodizing Tank	---	<sup>7</sup> 4.2	---	---	---	---	---	footnote 44

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Fabricated Metal Products</u></b>									
<b><u>Industrial Processes: Fabricated Metal Products - Metal Pipe Coating of Metal Parts - SIC 3479</u></b>									
3-09-016-01	Asphalt Dipping	---	---	---	---	1000	---	---	Tons Pipe Processed
3-09-016-05	Asphalt Dipping	---	---	---	---	23.3	---	---	1000 Square Feet Pipe Processed
3-09-016-06	Pipe Spinning	---	---	---	---	23.3	---	---	1000 Square Feet Pipe Processed
3-09-016-07	Pipe Wrapping	---	---	---	---	23.3	---	---	1000 Square Feet Pipe Processed
<b><u>Industrial Processes: Fabricated Metal Products - Drum Cleaning/Reclamation - SIC 5085</u></b>									
3-09-025-01	Drum Burning Furnace	0.035	0.02	---	0.002	---	---	---	Each Drum Burned
<b><u>Industrial Processes: Fabricated Metal Products - Metal Deposition Processes - SIC 3400, 5000</u></b>									
3-09-040-01	Metallizing: Wire Atomization and Spraying	---	---	---	---	---	---	0.5	Tons Sprayed Metal Consumed
<b><u>Industrial Processes: Fabricated Metal Products - Shielded Metal Arc Welding (SMAW) - SIC 3699</u></b>									
3-09-051-04	14Mn-4Cr Electrode	---	81.6	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-08	E11018 Electrode	---	16.4	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-12	E308 Electrode	---	10.8	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-16	E310 Electrode	---	15.1	---	---	---	---	0.024	1000 Pounds Electrode Consumed
3-09-051-20	E316 Electrode	---	10	---	---	---	---	---	1000 Pounds Electrode Consumed



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Fabricated Metal Products</u></b>									
<b><u>Industrial Processes: Fabricated Metal Products - Shielded Metal Arc Welding (SMAW) - SIC 3699</u></b>									
3-09-051-24	E410 Electrode	---	13.2	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-28	E6010 Electrode	---	25.6	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-32	E6011 Electrode	---	38.4	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-36	E6012 Electrode	---	8	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-40	E6013 Electrode	---	19.7	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-44	E7018 Electrode	---	18.4	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-48	E7024 Electrode	---	9.2	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-52	E7028 Electrode	---	18	---	---	---	---	0.162	1000 Pounds Electrode Consumed
3-09-051-56	E8018 Electrode	---	17.1	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-60	E9015 Electrode	---	17	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-64	E9018 Electrode	---	16.9	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-68	ECrCo-A Electrode	---	27.9	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-72	ENi-Cl Electrode	---	18.2	---	---	---	---	---	1000 Pounds Electrode Consumed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Fabricated Metal Products</u></b>									
<b><u>Industrial Processes: Fabricated Metal Products - Shielded Metal Arc Welding (SMAW) - SIC 3699</u></b>									
3-09-051-76	ENiCrMo Electrode	---	11.7	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-051-80	ENi-Cu Electrode	---	10.1	---	---	---	---	---	1000 Pounds Electrode Consumed
<b><u>Industrial Processes: Fabricated Metal Products - Gas Metal Arc Welding (GMAW) - SIC 3496</u></b>									
3-09-052-10	ER1260 Electrode	---	20.5	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-052-12	E308l Electrode	---	5.4	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-052-20	ER316 Electrode	---	3.2	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-052-26	ER5154 Electrode	---	24.1	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-052-54	E70S Electrode	---	5.2	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-052-76	ERNiCrMo Electrode	---	3.9	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-052-80	ERNiCu Electrode	---	2	---	---	---	---	---	1000 Pounds Electrode Consumed
<b><u>Industrial Processes: Fabricated Metal Products - Flux Cored Arc Welding (FCAW) - SIC 3561</u></b>									
3-09-053-06	E110 T5-K3 Electrode	---	20.8	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-053-08	E11018 Electrode	---	57	---	---	---	---	---	1000 Pounds Electrode Consumed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Fabricated Metal Products</u></b>									
<b><u>Industrial Processes: Fabricated Metal Products - Flux Cored Arc Welding (FCAW) - SIC 3561</u></b>									
3-09-053-12	E308LT Electrode	---	9.1	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-053-20	E316LT Electrode	---	8.5	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-053-54	E70T Electrode	---	15.1	---	---	---	---	---	1000 Pounds Electrode Consumed
3-09-053-55	E71T Electrode	---	12.2	---	---	---	---	---	1000 Pounds Electrode Consumed
<b><u>Industrial Processes: Fabricated Metal Products - Submerged Arc Welding (SAW) - SIC 3699</u></b>									
3-09-054-10	EM12K Electrode	---	0.05	---	---	---	---	---	1000 Pounds Electrode Consumed
<b><u>Industrial Processes: Fabricated Metal Products - Fuel Fired Equipment - SIC 3400, 5000</u></b>									
3-09-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-09-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-09-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-09-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-09-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
3-09-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Fabricated Metal Products</u></b>									
<b><u>Industrial Processes: Fabricated Metal Products - Fuel Fired Equipment - SIC 3400, 5000</u></b>									
3-09-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
<b><u>Industrial Processes - Oil and Gas Production</u></b>									
<b><u>Industrial Processes: Oil and Gas Production - Crude Oil Production - SIC 1311</u></b>									
3-10-001-01	Complete Well: Fugitive Emissions	---	---	---	---	396	---	---	Each-Year Well Operating
3-10-001-02	Miscellaneous Well: General	---	---	---	---	280	---	---	Each-Year Well Operating
3-10-001-03	Wells: Rod Pumps	---	---	---	---	456	---	---	Each-Year Well Operating
3-10-001-04	Crude Oil Sumps	---	---	---	---	9	---	---	Square Feet-Years Sump Area Operating
3-10-001-05	Crude Oil Pits	---	---	---	---	9	---	---	Square Feet-Years Sump Area Operating
<b><u>Industrial Processes: Oil and Gas Production - Natural Gas Production - SIC 1311</u></b>									
<b>2</b>									
3-10-002-01	Gas Sweetening: Amine Process	---	---	1685 S	---	---	---	---	Million Cubic Feet Sour Gas Processed
3-10-002-02	Gas Stripping Operations	---	---	312.2	---	---	---	---	Million Cubic Feet Gas Produced
3-10-002-03	Compressors	---	---	---	---	6	---	---	Million Cubic Feet Gas Produced
3-10-002-04	Wells	---	---	---	---	35.3	---	---	Million Cubic Feet Gas Produced
3-10-002-05	Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Gas Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Oil and Gas Production</u></b>									
<b><u>Industrial Processes: Oil and Gas Production - Natural Gas Production - SIC 1311</u></b>									
3-10-002-06	Gas Lift	---	---	---	---	6	---	---	Million Cubic Feet Gas Produced
<b><u>Industrial Processes: Oil and Gas Production - Process Heaters - SIC 1300</u></b>									
3-10-004-01	Distillate Oil (No. 2)	2	1	<sup>2</sup> 143.6 S	20	0.2	5	---	1000 Gallons Distillate Oil (No. 2) Burned
3-10-004-02	Residual Oil	<sup>2</sup> 12 S	<sup>2</sup> 10.3 S	<sup>2</sup> 158.6 S	55	0.28	5	0.00224	1000 Gallons Residual Oil Burned
3-10-004-03	Crude Oil	<sup>2</sup> 12 S	<sup>2</sup> 10.3 S	<sup>2</sup> 158.6 S	55	0.28	5	---	1000 Gallons Crude Oil Burned
3-10-004-04	Natural Gas	3	3	0.6	140	2.8	35	---	Million Cubic Feet Natural Gas Burned
3-10-004-05	Process Gas	3	3	<sup>2</sup> 950 S	140	2.8	35	---	Million Cubic Feet Process Gas Burned
3-10-004-11	Distillate Oil (No. 2): Steam Generators	2	1	<sup>2</sup> 143.6 S	20	0.2	5	---	1000 Gallons Distillate Oil (No. 2) Burned
3-10-004-12	Residual Oil: Steam Generators	<sup>2</sup> 12 S	<sup>2</sup> 10.3 S	<sup>2</sup> 158.6 S	55	0.28	5	---	1000 Gallons Residual Oil Burned
3-10-004-13	Crude Oil: Steam Generators	<sup>2</sup> 12 S	<sup>2</sup> 10.3 S	<sup>2</sup> 158.6 S	55	0.28	5	<sup>13</sup> 0.00000194	footnote 45
3-10-004-14	Natural Gas: Steam Generators	3	3	0.6	140	2.8	35	---	Million Cubic Feet Natural Gas Burned
3-10-004-15	Process Gas: Steam Generators	3	3	---	140	2.8	35	---	Million Cubic Feet Process Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Electrical Equipment</u></b>									
<b><u>Industrial Processes: Electrical Equipment - Electrical Windings Reclamation - SIC 7694</u></b>									
3-13-070-01	Single Chamber Incinerator/Oven	---	---	2.5	---	---	---	---	Tons Material Charged
3-13-070-02	Multiple Chamber Incinerator/Oven	---	---	2.5	---	---	---	---	Tons Material Charged
<b><u>Industrial Processes: Electrical Equipment - Process Heaters - SIC 7600</u></b>									
3-13-900-01	Distillate Oil (No. 2)	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-13-900-02	Residual Oil	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-13-900-03	Natural Gas	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
<b><u>Industrial Processes - Transportation Equipment</u></b>									
<b><u>Industrial Processes: Transportation Equipment - Brake Shoe Debonding - SIC 7539</u></b>									
3-14-010-01	Single Chamber Incinerator	---	---	2.5	---	---	---	---	Tons Material Charged
3-14-010-02	Multiple Chamber Incinerator	---	---	2.5	---	---	---	---	Tons Material Charged
<b><u>Industrial Processes - Photographic Equipment/Health Care/Laboratories</u></b>									
<b><u>Industrial Processes: Photographic Equipment/Health Care/Laboratories - Photocopying Equipment Manufacturing - SIC 3861</u></b>									
3-15-010-02	Toner Classification	---	---	---	---	630	---	---	1000 Pounds Toner Processed
<b><u>Industrial Processes: Photographic Equipment/Health Care/Laboratories - Health Care - Hospitals - SIC 8062</u></b>									
3-15-020-01	Sterilization with Ethylene Oxide	---	---	---	---	2000	---	---	Tons Ethylene Oxide Consumed
<b><u>Industrial Processes: Photographic Equipment/Health Care/Laboratories - Health Care - Crematoriums - SIC 3860, 7260, 8000</u></b>									
3-15-021-01	Crematory Stack	0.0000559	---	---	---	---	---	0.0000662	Each Body Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - Leather and Leather Products</u></b>									
<b><u>Industrial Processes: Leather and Leather Products - Other Not Classified - SIC 3100</u></b>									
3-20-999-98	Other Not Classified	---	---	---	---	19	---	---	Hallons Material Processed
<b><u>Industrial Processes - Textile Products</u></b>									
<b><u>Industrial Processes: Textile Products - Miscellaneous - SIC 2261, 2262, 2280, 2290</u></b>									
3-30-001-02	Printing	---	---	---	---	284	---	---	Tons Material Processed
3-30-001-04	Tenter Frames: Heat Setting	---	---	---	---	0.47	---	---	Tons Material Processed
<b><u>Industrial Processes: Textile Products - Rubberized Fabrics - SIC 3069, 2241</u></b>									
3-30-002-12	Wet Coating	---	---	---	---	1200	---	---	Tons Coating Applied
3-30-002-14	Wet Coating Mixing	---	---	---	---	120	---	---	Tons Coating Mixed
<b><u>Industrial Processes - Printing and Publishing</u></b>									
<b><u>Industrial Processes: Printing and Publishing - Typesetting (Lead Remelting) - SIC 2791</u></b>									
3-60-001-01	Remelting (Lead Emissions Only)	0.7	0.18	---	---	---	---	0.25	Tons Material Melted
<b><u>Industrial Processes - Cooling Tower</u></b>									
<b><u>Industrial Processes: Cooling Tower - Process Cooling - SIC multiple (See Appendix D)</u></b>									
3-85-001-01	Mechanical Draft	---	19	---	---	---	---	---	Million Gallons Cooling Water Throughput
<b><u>Industrial Processes - In-process Fuel Use</u></b>									
<b><u>Industrial Processes: In-process Fuel Use - Anthracite Coal - SIC multiple (See Appendix D)</u></b>									
3-90-001-89	General	<sup>1</sup> 10 A	<sup>1</sup> 2.3 A	<sup>2</sup> 39 S	18	0.07	0.6	---	Tons Anthracite Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - In-process Fuel Use</u></b>									
<b><u>Industrial Processes: In-process Fuel Use - Bituminous Coal - SIC multiple (See Appendix D)</u></b>									
3-90-002-88	General (Subbituminous)	<sup>1</sup> 7 A	<sup>1</sup> 1.6 A	<sup>2</sup> 39 S	34	0.07	0.6	---	Tons Subbituminous Coal Burned
3-90-002-89	General (Bituminous)	<sup>1</sup> 7 A	<sup>1</sup> 1.4 A	<sup>2</sup> 39 S	34	0.07	0.6	---	Tons Bituminous Coal Burned
<b><u>Industrial Processes: In-process Fuel Use - Lignite - SIC 2297</u></b>									
3-90-003-89	General	<sup>1</sup> 6.3 A	<sup>1</sup> 1.3 A	<sup>2</sup> 30 S	14	0.07	0.6	---	Tons Lignite Burned
<b><u>Industrial Processes: In-process Fuel Use - Residual Oil - SIC multiple (See Appendix D)</u></b>									
3-90-004-03	Lime Kiln	---	---	<sup>2</sup> 79.5 S	---	---	---	---	1000 Gallons Residual Oil Burned
3-90-004-89	General	<sup>2</sup> 12 S	<sup>2</sup> 10.3 S	<sup>2</sup> 158.6 S	55	0.28	5	---	1000 Gallons Residual Oil Burned
<b><u>Industrial Processes: In-process Fuel Use - Distillate Oil - SIC multiple (See Appendix D)</u></b>									
3-90-005-02	Cement Kiln/Dryer	---	---	<sup>2</sup> 98 S	---	---	---	---	1000 Gallons Distillate Oil Burned
3-90-005-03	Lime Kiln	---	---	<sup>2</sup> 72 S	---	---	---	---	1000 Gallons Distillate Oil Burned
3-90-005-89	General	2	1	<sup>2</sup> 143.6 S	20	0.2	5	---	1000 Gallons Distillate Oil Burned
<b><u>Industrial Processes: In-process Fuel Use - Natural Gas - SIC multiple (See Appendix D)</u></b>									
3-90-006-89	General	3	3	0.6	---	---	---	---	Million Cubic Feet Natural Gas Burned
<b><u>Industrial Processes: In-process Fuel Use - Process Gas - SIC multiple (See Appendix D)</u></b>									
3-90-007-88	General	---	3	---	---	---	---	---	Million Cubic Feet Process Gas Burned



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Industrial Processes - In-process Fuel Use</u></b>									
<b><u>Industrial Processes: In-process Fuel Use - Process Gas - SIC multiple (See Appendix D)</u></b>									
3-90-007-89	Coke Oven Gas	---	4.3	---	---	---	---	---	Million Cubic Feet Coke Oven Gas Burned
<b><u>Industrial Processes: In-process Fuel Use - Wood - SIC multiple (See Appendix D)</u></b>									
3-90-009-89	General	---	6.5	---	---	---	---	---	Tons Wood Burned
<b><u>Industrial Processes: In-process Fuel Use - Liquified Petroleum Gas - SIC multiple (See Appendix D)</u></b>									
3-90-010-89	General	0.4	0.4	---	14	0.5	1.9	---	1000 Gallons Liquified Petroleum Gas (LPG) Burn
<b><u>Industrial Processes: In-process Fuel Use - Liquid Waste - SIC multiple (See Appendix D)</u></b>									
3-90-013-89	General	19	16.3	---	---	---	---	---	1000 Gallons Liquid Waste Burned
<b><u>Industrial Processes - Miscellaneous Manufacturing Industries</u></b>									
<b><u>Industrial Processes: Miscellaneous Manufacturing Industries - Miscellaneous Manufacturing Industries - SIC 3900</u></b>									
3-99-900-01	Distillate Oil (No. 2): Process Heaters	---	---	<sup>2</sup> 143.6 S	20	0.2	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-99-900-02	Residual Oil: Process Heaters	---	---	<sup>2</sup> 158.6 S	55	0.28	---	---	1000 Gallons Residual Oil Burned
3-99-900-03	Natural Gas: Process Heaters	---	---	0.6	140	2.8	---	---	Million Cubic Feet Natural Gas Burned
3-99-900-04	Process Gas: Process Heaters	---	---	<sup>2</sup> 950 S	140	2.8	---	---	Million Cubic Feet Process Gas Burned
3-99-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
3-99-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Industrial Processes - Miscellaneous Manufacturing Industries**

**Industrial Processes: Miscellaneous Manufacturing Industries - Miscellaneous Manufacturing Industries - SIC 3900**

3-99-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-99-900-14	Process Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned
3-99-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
3-99-900-24	Process Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Process Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation</u></b>									
<b><u>Petroleum and Solvent Evaporation - Organic Solvent Evaporation</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Dry Cleaning - SIC 7215, 7216, 7218</u></b>									
4-01-001-01	Perchloroethylene	---	---	---	---	550	---	---	Tons Clothes Cleaned
4-01-001-02	Stoddard (Petroleum Solvent) ** (Use 4-10-001-01 or 4-10-002-01)	---	---	---	---	560	---	---	Tons Clothes Cleaned
4-01-001-03	Perchloroethylene	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-001-04	Stoddard (Petroleum Solvent) ** (Use 4-10-001-02 or 4-10-002-02)	---	---	---	---	2000	---	---	Tons Solvent Consumed
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Degreasing - SIC 2500, 3300, 3900, 7500</u></b>									
4-01-002-01	Stoddard (Petroleum Solvent): Open-top Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-03	Perchloroethylene: Open-top Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-05	Trichloroethylene: Open-top Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-06	Toluene: Open-top Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-08	Chlorosolve: Open-top Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-09	Butyl Acetate	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-15	Entire Unit: Open-top Vapor Degreasing	---	---	---	---	21000	---	---	Each-Year Degreaser Operating
4-01-002-16	Degreaser: Entire Unit	---	---	---	---	150	---	---	1000 Square Feet Product Surface Area Degreased

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Solvent Evaporation</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Degreasing - SIC 2500, 3300, 3900, 7500</u></b>									
4-01-002-17	Entire Unit	---	---	---	---	0.15	---	---	Square Feet-Hours Surface Area Operated
4-01-002-21	Stoddard (Petroleum Solvent): Conveyorized Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-22	1,1,1-Trichloroethane (Methyl Chloroform):Conveyorized Vapor Degreaser	---	---	---	---	1031	---	---	Tons Make-Up Solvent Used
4-01-002-23	Perchloroethylene: Conveyorized Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-25	Trichloroethylene: Conveyorized Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used
4-01-002-35	Entire Unit: with Vaporized Solvent: Conveyorized Vapor Degreasing	---	---	---	---	52000	---	---	Each-Year Degreaser Operating
4-01-002-36	Entire Unit: with Non-boiling Solvent: Conveyorized Vapor Degreasing	---	---	---	---	104000	---	---	Each-Year Degreaser Operating
4-01-002-51	Stoddard (Petroleum Solvent): General Degreasing Units	---	---	---	---	7	---	---	Hallons Solvent Consumed
4-01-002-53	Perchloroethylene: General Degreasing Units	---	---	---	---	13.6	---	---	Hallons Solvent Consumed
4-01-002-55	Trichloroethylene: General Degreasing Units	---	---	---	---	12.2	---	---	Hallons Solvent Consumed
4-01-002-56	Toluene: General Degreasing Units	---	---	---	---	7.2	---	---	Hallons Solvent Consumed
4-01-002-98	Other Not Classified: Conveyorized Vapor Degreasing	---	---	---	---	2000	---	---	Tons Make-Up Solvent Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Solvent Evaporation</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Cold Solvent Cleaning/Stripping - SIC 2500, 3300, 3900, 7500</u></b>									
4-01-003-01	Methanol	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-003-03	Stoddard (Petroleum Solvent)	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-003-04	Perchloroethylene	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-003-06	Trichloroethylene	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-003-07	Isopropyl Alcohol	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-003-08	Methyl Ethyl Ketone	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-003-10	Acetone	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-003-35	Entire Unit	---	---	---	---	660	---	---	Each-Year Cold Cleaner Operating
4-01-003-36	Degreaser: Entire Unit	---	---	---	---	80	---	---	1000 Square Feet Product Surface Area Degreased
4-01-003-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent Consumed
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Knit Fabric Scouring with Chlorinated Solvent - SIC 2200</u></b>									
4-01-004-01	Perchloroethylene	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-01-004-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent Consumed
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General - SIC multiple (See Appendix D)</u></b>									
4-02-001-01	Paint: Solvent-base	---	---	---	---	1120	---	---	Tons Coating Mix Applied
4-02-001-10	Paint: Solvent-base	---	---	---	---	5.6	---	---	Hallons Coating Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General - SIC multiple (See Appendix D)</u></b>									
4-02-002-01	Paint: Water-base	---	---	---	---	246	---	---	Tons Coating Mix Applied
4-02-002-10	Paint: Water-base	---	---	---	---	1.3	---	---	Hallons Coating Processed
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General - SIC multiple (See Appendix D)</u></b>									
4-02-003-01	Varnish/Shellac	---	---	---	---	1000	---	---	Tons Coating Mix Applied
4-02-003-10	Varnish/Shellac	---	---	---	---	3.3	---	---	Hallons Coating Processed
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General - SIC multiple (See Appendix D)</u></b>									
4-02-004-01	Lacquer	---	---	---	---	1540	---	---	Tons Coating Mix Applied
4-02-004-10	Lacquer	---	---	---	---	6.1	---	---	Hallons Coating Processed
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General - SIC multiple (See Appendix D)</u></b>									
4-02-005-01	Enamel	---	---	---	---	840	---	---	Tons Coating Mix Applied
4-02-005-10	Enamel	---	---	---	---	3.5	---	---	Hallons Coating Processed
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General - SIC multiple (See Appendix D)</u></b>									
4-02-006-01	Primer	---	---	---	---	1320	---	---	Tons Coating Mix Applied
4-02-006-10	Primer	---	---	---	---	6.6	---	---	Hallons Coating Processed
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General - SIC multiple (See Appendix D)</u></b>									
4-02-007-01	Adhesive Application	---	---	---	---	1270	---	---	Tons Coating Mix Applied
4-02-007-10	Adhesive: General	---	---	---	---	4.4	---	---	Hallons Coating Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Thinning Solvents - General - SIC multiple (See Appendix D)</u></b>									
4-02-009-31	Perchloroethylene	---	---	---	---	2000	---	---	Tons Solvent Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Coating Oven Heater - SIC multiple (See Appendix D)</u></b>									
4-02-010-01	Natural Gas	3	3	0.6	---	---	---	---	Million Cubic Feet Natural Gas Burned
4-02-010-02	Distillate Oil	2	---	<sup>2</sup> 143.65 S	---	---	---	---	1000 Gallons Distillate Oil Burned
4-02-010-03	Residual Oil	12	---	<sup>2</sup> 158.6 S	---	---	---	---	1000 Gallons Residual Oil Burned
4-02-010-04	Liquified Petroleum Gas (LPG)	0.28	---	<sup>12</sup> 0.09 s	---	---	---	---	1000 Gallons Liquified Petroleum Gas (LPG) Burned
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Fabric Coating/Printing - SIC 2295, 2261, 2262, 2269</u></b>									
4-02-011-01	Coating Operation (Also See Specific Coating Method Codes 4- 02-04X)	---	---	---	---	1600	---	---	Tons Solvent in Coating Used
4-02-011-03	Coating Mixing (Also See Specific Coating Method Codes 4-02-04X)	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-011-05	Equipment Cleanup: Fabric Coating (Also Spec Coat Method Codes 4-02-04X)	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-011-11	Fabric Printing: Roller (Also See New Codes Under 4-02-040-XX)	---	---	---	---	284	---	---	Tons Fabric Processed
4-02-011-12	Fabric Printing: Roller (Also See New Codes Under 4-02-040-XX)	---	---	---	---	278000	---	---	Each-Year Printing Line Operating
4-02-011-13	Fabric Printing: Rotary Screen (Also See New Codes Under 4-02- 040-XX)	---	---	---	---	46	---	---	Tons Fabric Processed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Fabric Coating/Printing - SIC 2295, 2261, 2262, 2269</u></b>									
4-02-011-14	Fabric Printing: Rotary Screen (Also See New Codes Under 4-02-040-XX)	---	---	---	---	62000	---	---	Each-Year Printing Line Operating
4-02-011-15	Fabric Printing: Flat Screen (Also See New Codes Under 4-02-040- XX)	---	---	---	---	158	---	---	Tons Fabric Processed
4-02-011-16	Fabric Printing: Flat Screen (Also See New Codes Under 4-02-040- XX)	---	---	---	---	62000	---	---	Each-Year Printing Line Operating
4-02-011-99	Other Not Classified (Also See New Codes Under 4-02-040-XX)	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Paper Coating - SIC 2671, 2672</u></b>									
4-02-013-01	Coating Operation	---	---	---	---	1400	---	---	Tons Solvent in Coating Used
4-02-013-03	Coating Mixing	---	---	---	---	300	---	---	Tons Solvent in Coating Used
4-02-013-05	Equipment Cleanup	---	---	---	---	300	---	---	Tons Solvent in Coating Used
4-02-013-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Large Appliances - SIC 3630, 3650, 3430, 3580</u></b>									
4-02-014-01	Prime Coating Operation	---	---	---	---	900	---	---	Tons Solvent in Coating Used
4-02-014-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-014-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-014-06	Topcoat Spray	---	---	---	---	700	---	---	Tons Solvent in Coating Used
4-02-014-31	Coating Line: General	---	---	---	---	0.9	---	---	Each Appliance Produced



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Large Appliances - SIC 3630, 3650, 3430, 3580</u></b>									
4-02-014-32	Prime Air Spray	---	---	---	---	3.1	---	---	1000 Square Feet Product Surface Area Coated
4-02-014-33	Prime Electrostatic Spray	---	---	---	---	1.79	---	---	1000 Square Feet Product Surface Area Coated
4-02-014-34	Prime Flow Coat	---	---	---	---	1.65	---	---	1000 Square Feet Product Surface Area Coated
4-02-014-35	Prime Dip Coat	---	---	---	---	1.65	---	---	1000 Square Feet Product Surface Area Coated
4-02-014-36	Prime Electro-deposition	---	---	---	---	1.5	---	---	1000 Square Feet Product Surface Area Coated
4-02-014-37	Top Air Spray	---	---	---	---	6.3	---	---	1000 Square Feet Product Surface Area Coated
4-02-014-38	Top Electrostatic Spray	---	---	---	---	3.2	---	---	1000 Square Feet Product Surface Area Coated
4-02-014-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Magnet Wire Surface Coating - SIC 3357, 3351</u></b>									
4-02-015-01	Coating/Application/Curing	---	---	---	---	1600	---	---	Tons Solvent in Coating Used
4-02-015-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-015-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-015-31	Coating Line: General	---	---	---	---	186000	---	---	Each-Year Coating Line Operating
4-02-015-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Automobiles and Light Trucks - SIC 3771, 3713, 3711</u></b>									
4-02-016-01	Prime Application/Electro-deposition/Dip/Spray	9.68	6.4	---	---	500	---	---	Tons Solvent in Coating Used
4-02-016-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-016-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-016-06	Topcoat Operation	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-016-19	Prime Surfacing Operation	---	---	---	---	100	---	---	Tons Solvent in Coating Used
4-02-016-20	Repair Topcoat Application Area	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-016-21	Prime Coating: Solvent-borne - Automobiles	---	---	---	---	14.54	---	---	Each Vehicle Produced
4-02-016-22	Prime Coating: Electro-deposition - Automobiles	---	---	---	---	0.45	---	---	Each Vehicle Produced
4-02-016-23	Guide Coating: Solvent-borne - Automobiles	---	---	---	---	4.16	---	---	Each Vehicle Produced
4-02-016-24	Guide Coating: Water-borne - Automobiles	---	---	---	---	1.5	---	---	Each Vehicle Produced
4-02-016-25	Topcoat: Solvent-borne - Automobiles	---	---	---	---	27.3	---	---	Each Vehicle Produced
4-02-016-26	Topcoat: Water-borne - Automobiles	---	---	---	---	4.95	---	---	Each Vehicle Produced
4-02-016-27	Prime Coating: Solvent-borne - Light Trucks	---	---	---	---	42.39	---	---	Each Vehicle Produced
4-02-016-28	Prime Coating: Electro-deposition - Light Trucks	---	---	---	---	0.58	---	---	Each Vehicle Produced

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Automobiles and Light Trucks - SIC 3771, 3713, 3711</u></b>									
4-02-016-29	Guide Coating: Solvent-borne - Light Trucks	---	---	---	---	14.04	---	---	Each Vehicle Produced
4-02-016-30	Guide Coating: Water-borne - Light Trucks	---	---	---	---	5.06	---	---	Each Vehicle Produced
4-02-016-31	Topcoat: Solvent-borne - Light Trucks	---	---	---	---	40.3	---	---	Each Vehicle Produced
4-02-016-32	Topcoat: Water-borne - Light Trucks	---	---	---	---	15.47	---	---	Each Vehicle Produced
4-02-016-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Metal Can Coating - SIC 3411</u></b>									
4-02-017-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-017-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-017-21	Two Piece Exterior Base Coating	---	---	---	---	900	---	---	Tons Solvent in Coating Used
4-02-017-22	Interior Spray Coating	---	---	---	---	400	---	---	Tons Solvent in Coating Used
4-02-017-24	Sheet Base Coating (Exterior)	---	---	---	---	700	---	---	Tons Solvent in Coating Used
4-02-017-25	Side Seam Spray Coating	---	---	---	---	100	---	---	Tons Solvent in Coating Used
4-02-017-26	End Sealing Compound (Also See 4-02-017-36 & -37)	---	---	---	---	100	---	---	Tons Solvent in Coating Used
4-02-017-27	Lithography	---	---	---	---	400	---	---	Tons Solvent in Coating Used
4-02-017-28	Over Varnish	---	---	---	---	200	---	---	Tons Solvent in Coating Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Metal Can Coating - SIC 3411</u></b>									
4-02-017-31	Three-piece Can Sheet Base Coating	---	---	---	---	352000	---	---	Each-Year Coating Line Operating
4-02-017-32	Three-piece Can Sheet Lithographic Coating Line	---	---	---	---	110000	---	---	Each-Year Coating Line Operating
4-02-017-33	Three-piece Can-side Seam Spray Coating	---	---	---	---	40000	---	---	Each-Year Coating Line Operating
4-02-017-34	Three-piece Can Interior Body Spray Coat	---	---	---	---	176000	---	---	Each-Year Coating Line Operating
4-02-017-35	Two-piece Can Coating Line	---	---	---	---	574000	---	---	Each-Year Coating Line Operating
4-02-017-36	Two-piece Can End Sealing Compound	---	---	---	---	30000	---	---	Each-Year Coating Line Operating
4-02-017-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Metal Coil Coating - SIC 3353, 3354</u></b>									
4-02-018-01	Prime Coating Application	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-018-03	Solvent Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-018-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-018-06	Finish Coating	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-018-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Wood Furniture Surface Coating - SIC 2511, 2512, 2517, 2521</u></b>									
4-02-019-01	Coating Operation	---	---	---	---	1600	---	---	Tons Solvent in Coating Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Wood Furniture Surface Coating - SIC 2511, 2512, 2517, 2521</u></b>									
4-02-019-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-019-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Metal Furniture Operations - SIC 2514, 2522</u></b>									
4-02-020-01	Coating Operation	---	---	---	---	1600	---	---	Tons Solvent in Coating Used
4-02-020-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-020-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-020-31	Single Spray Line: General	---	---	---	---	22.9	---	---	1000 Square Feet Product Surface Area Coated
4-02-020-32	Spray Dip Line: General ** (Use 4-02-020-37)	---	---	---	---	15.3	---	---	1000 Square Feet Product Surface Area Coated
4-02-020-33	Spray High Solids Coating ** (Use 4-02-020-35)	---	---	---	---	6.8	---	---	1000 Square Feet Product Surface Area Coated
4-02-020-34	Spray Water-borne Coating ** (Use 4-02-020-36)	---	---	---	---	4.3	---	---	1000 Square Feet Product Surface Area Coated
4-02-020-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Flatwood Products - SIC 2435, 2492, 2499</u></b>									
4-02-021-01	Base Coat	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-021-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-021-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-021-06	Topcoat	---	---	---	---	800	---	---	Tons Solvent in Coating Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Flatwood Products - SIC 2435, 2492, 2499</u></b>									
4-02-021-07	Filler	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
4-02-021-08	Sealer	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
4-02-021-09	Inks	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
4-02-021-31	Water-borne Coating	---	---	---	---	2.5	---	---	1000 Square Feet Product Surface Area Coated
4-02-021-32	Solvent-borne Coating	---	---	---	---	16.5	---	---	1000 Square Feet Product Surface Area Coated
4-02-021-33	Ultraviolet Coating	---	---	---	---	0.8	---	---	1000 Square Feet Product Surface Area Coated
4-02-021-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Plastic Parts - SIC 3079</u></b>									
4-02-022-01	Coating Operation	---	---	---	---	1600	---	---	Tons Solvent in Coating Used
4-02-022-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-022-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-022-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Large Ships - SIC 3731</u></b>									
4-02-023-01	Prime Coating Operation	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-023-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-023-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Large Ships - SIC 3731</u></b>									
4-02-023-06	Topcoat Operation	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-023-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Large Aircraft - SIC 3721</u></b>									
4-02-024-01	Prime Coating Operation	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-024-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-024-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-024-06	Topcoat Operation	---	---	---	---	800	---	---	Tons Solvent in Coating Used
4-02-024-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent in Coating Used
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Miscellaneous Metal Parts - SIC multiple (See Appendix D)</u></b>									
4-02-025-01	Coating Operation	---	---	---	---	1600	---	---	Tons Solvent in Coating Used
4-02-025-03	Coating Mixing	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-025-05	Equipment Cleanup	---	---	---	---	200	---	---	Tons Solvent in Coating Used
4-02-025-31	Conveyor Single Flow	---	---	---	---	15.3	---	---	1000 Square Feet Product Surface Area Coated
4-02-025-32	Conveyor Single Dip	---	---	---	---	15.3	---	---	1000 Square Feet Product Surface Area Coated
4-02-025-33	Conveyor Single Spray	---	---	---	---	27.5	---	---	1000 Square Feet Product Surface Area Coated
4-02-025-34	Conveyor Two Coat, Flow and Spray	---	---	---	---	42.8	---	---	1000 Square Feet Product Surface Area Coated

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Surface Coating Operations</u></b>									
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Miscellaneous Metal Parts - SIC multiple (See Appendix D)</u></b>									
4-02-025-35	Conveyor Two Coat, Dip and Spray	---	---	---	---	42.8	---	---	1000 Square Feet Product Surface Area Coated
4-02-025-36	Conveyor Two Coat, Spray	---	---	---	---	55	---	---	1000 Square Feet Product Surface Area Coated
4-02-025-37	Manual Two Coat, Spray and Air Dry	---	---	---	---	54.8	---	---	1000 Square Feet Product Surface Area Coated
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Steel Drums - SIC 3412</u></b>									
4-02-026-01	Coating Operation	---	---	---	---	4.3	---	---	Hallons Paint Consumed
4-02-026-03	Coating Mixing	---	---	---	---	0.5	---	---	Hallons Paint Consumed
4-02-026-05	Equipment Cleanup	---	---	---	---	0.5	---	---	Hallons Paint Consumed
4-02-026-06	Interior Coating	---	---	---	---	2.2	---	---	Hallons Paint Consumed
4-02-026-07	Exterior Coating	---	---	---	---	2.2	---	---	Hallons Paint Consumed
<b><u>Petroleum and Solvent Evaporation: Surface Coating Operations - Fuel Fired Equipment - SIC multiple (See Appendix D)</u></b>									
4-02-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
<b><u>Petroleum and Solvent Evaporation - Petroleum Product Storage at Refineries</u></b>									
<b><u>Petroleum and Solvent Evaporation: Petroleum Product Storage at Refineries - Fixed Roof Tanks (Varying Sizes) - SIC 2911, 2992, 1311, 1321</u></b>									
4-03-010-01	Gasoline RVP 13: Breathing Loss (67000 Bbl. Tank Size)	---	---	---	---	30.5	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-03-010-02	Gasoline RVP 10: Breathing Loss (67000 Bbl. Tank Size)	---	---	---	---	23.4	---	---	1000 Gallon-Years Gasoline Storage Capacity



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Petroleum Product Storage at Refineries</u></b>									
<b><u>Petroleum and Solvent Evaporation: Petroleum Product Storage at Refineries - Fixed Roof Tanks (Varying Sizes) - SIC 2911, 2992, 1311, 1321</u></b>									
4-03-010-03	Gasoline RVP 7: Breathing Loss (67000 Bbl. Tank Size)	---	---	---	---	16.5	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-03-010-04	Gasoline RVP 13: Breathing Loss (250000 Bbl. Tank Size)	---	---	---	---	22	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-03-010-05	Gasoline RVP 10: Breathing Loss (250000 Bbl. Tank Size)	---	---	---	---	16.9	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-03-010-06	Gasoline RVP 7: Breathing Loss (250000 Bbl. Tank Size)	---	---	---	---	11.9	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-03-010-07	Gasoline RVP 13: Working Loss (Tank Diameter Independent)	---	---	---	---	10	---	---	1000 Gallons Gasoline Throughput
4-03-010-08	Gasoline RVP 10: Working Loss (Tank Diameter Independent)	---	---	---	---	8.2	---	---	1000 Gallons Gasoline Throughput
4-03-010-09	Gasoline RVP 7: Working Loss (Tank Diameter Independent)	---	---	---	---	5.7	---	---	1000 Gallons Gasoline Throughput
4-03-010-10	Crude Oil RVP 5: Breathing Loss (67000 Bbl. Tank Size)	---	---	---	---	6.5	---	---	1000 Gallon-Years Crude Oil Storage Capacity
4-03-010-11	Crude Oil RVP 5: Breathing Loss (250000 Bbl. Tank Size)	---	---	---	---	4.69	---	---	1000 Gallon-Years Crude Oil Storage Capacity
4-03-010-12	Crude Oil RVP 5: Working Loss (Tank Diameter Independent)	---	---	---	---	2.8	---	---	1000 Gallons Crude Oil Throughput
4-03-010-13	Jet Naphtha (JP-4): Breathing Loss (67000 Bbl. Tank Size)	---	---	---	---	8.8	---	---	1000 Gallon-Years Jet Naphtha Storage Capacity
4-03-010-14	Jet Naphtha (JP-4): Breathing Loss (250000 Bbl. Tank Size)	---	---	---	---	6.3	---	---	1000 Gallon-Years Jet Naphtha Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Petroleum and Solvent Evaporation - Petroleum Product Storage at Refineries**

**Petroleum and Solvent Evaporation: Petroleum Product Storage at Refineries - Fixed Roof Tanks (Varying Sizes) - SIC 2911, 2992, 1311, 1321**

4-03-010-15	Jet Naphtha (JP-4): Working Loss (Tank Diameter Independent)	---	---	---	---	2.5	---	---	1000 Gallons Jet Naphtha Throughput
4-03-010-16	Jet Kerosene: Breathing Loss (67000 Bbl. Tank Size)	---	---	---	---	0.44	---	---	1000 Gallon-Years Jet Kerosene Storage Capacity
4-03-010-17	Jet Kerosene: Breathing Loss (250000 Bbl. Tank Size)	---	---	---	---	0.3	---	---	1000 Gallon-Years Jet Kerosene Storage Capacity
4-03-010-18	Jet Kerosene: Working Loss (Tank Diameter Independent)	---	---	---	---	0.03	---	---	1000 Gallons Jet Kerosene Throughput
4-03-010-19	Distillate Fuel #2: Breathing Loss (67000 Bbl. Tank Size)	---	---	---	---	0.4	---	---	1000 Gallon-Years Distillate Oil (No. 2) Storage Capacity
4-03-010-20	Distillate Fuel #2: Breathing Loss (250000 Bbl. Tank Size)	---	---	---	---	0.29	---	---	1000 Gallon-Years Distillate Oil (No. 2) Storage Capacity
4-03-010-21	Distillate Fuel #2: Working Loss (Tank Diameter Independent)	---	---	---	---	0.02	---	---	1000 Gallons Distillate Oil (No. 2) Throughput

**Petroleum and Solvent Evaporation: Petroleum Product Storage at Refineries - Variable Vapor Space - SIC 2911, 2992, 1311, 1321**

4-03-012-01	Gasoline RVP 13: Filling Loss	---	---	---	---	9.6	---	---	1000 Gallons Gasoline Throughput
4-03-012-02	Gasoline RVP 10: Filling Loss	---	---	---	---	7.7	---	---	1000 Gallons Gasoline Throughput
4-03-012-03	Gasoline RVP 7: Filling Loss	---	---	---	---	5.4	---	---	1000 Gallons Gasoline Throughput
4-03-012-04	Jet Naphtha (JP-4): Filling Loss	---	---	---	---	2.3	---	---	1000 Gallons Jet Naphtha Throughput
4-03-012-05	Jet Kerosene: Filling Loss	---	---	---	---	0.025	---	---	1000 Gallons Jet Kerosene Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Petroleum and Solvent Evaporation - Petroleum Product Storage at Refineries**

**Petroleum and Solvent Evaporation: Petroleum Product Storage at Refineries - Variable Vapor Space - SIC 2911, 2992, 1311, 1321**

4-03-012-06	Distillate Fuel #2: Filling Loss	---	---	---	---	0.022	---	---	1000 Gallons Distillate Oil (No. 2) Throughput
4-03-012-07	Benzene: Filling Loss	---	---	---	---	2.1	---	---	1000 Gallons Benzene Throughput

**Petroleum and Solvent Evaporation - Petroleum Liquids Storage (non-Refinery)**

**Petroleum and Solvent Evaporation: Petroleum Liquids Storage (non-Refinery) - Bulk Terminals - SIC 5171, 4226**

4-04-001-01	Gasoline RVP 13: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	---	---	---	---	30.5	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-001-02	Gasoline RVP 10: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	---	---	---	---	23.4	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-001-03	Gasoline RVP 7: Breathing Loss (67000 Bbl. Capacity) - Fixed Roof Tank	---	---	---	---	16.5	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-001-04	Gasoline RVP 13: Breathing Loss (250000 Bbl Capacity)-Fixed Roof Tank	---	---	---	---	22	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-001-05	Gasoline RVP 10: Breathing Loss (250000 Bbl Capacity)-Fixed Roof Tank	---	---	---	---	16.9	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-001-06	Gasoline RVP 7: Breathing Loss (250000 Bbl Capacity) - Fixed Roof Tank	---	---	---	---	11.9	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-001-07	Gasoline RVP 13: Working Loss (Diam. Independent) - Fixed Roof Tank	---	---	---	---	10	---	---	1000 Gallons Gasoline Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Petroleum Liquids Storage (non-Refinery)</u></b>									
<b><u>Petroleum and Solvent Evaporation: Petroleum Liquids Storage (non-Refinery) - Bulk Terminals - SIC 5171, 4226</u></b>									
4-04-001-08	Gasoline RVP 10: Working Loss (Diameter Independent) - Fixed Roof Tank	---	---	---	---	8.2	---	---	1000 Gallons Gasoline Throughput
4-04-001-09	Gasoline RVP 7: Working Loss (Diameter Independent) - Fixed Roof Tank	---	---	---	---	5.7	---	---	1000 Gallons Gasoline Throughput
4-04-001-18	Gasoline RVP 13: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	---	---	---	---	9.6	---	---	1000 Gallons Gasoline Throughput
4-04-001-19	Gasoline RVP 10: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	---	---	---	---	7.7	---	---	1000 Gallons Gasoline Throughput
4-04-001-20	Gasoline RVP 7: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	---	---	---	---	5.4	---	---	1000 Gallons Gasoline Throughput
4-04-001-52	Vapor Collection Losses	---	---	---	---	5.2	---	---	1000 Gallons Petroleum Liquid Transferred
4-04-001-53	Vapor Control Unit Losses	---	---	---	---	5	---	---	1000 Gallons Petroleum Liquid Transferred
<b><u>Petroleum and Solvent Evaporation: Petroleum Liquids Storage (non-Refinery) - Bulk Plants - SIC 5171, 4226</u></b>									
4-04-002-01	Gasoline RVP 13: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	---	---	---	---	30.5	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-002-02	Gasoline RVP 10: Breathing Loss (67000 Bbl Capacity) - Fixed Roof Tank	---	---	---	---	23.4	---	---	1000 Gallon-Years Gasoline Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Petroleum Liquids Storage (non-Refinery)</u></b>									
<b><u>Petroleum and Solvent Evaporation: Petroleum Liquids Storage (non-Refinery) - Bulk Plants - SIC 5171, 4226</u></b>									
4-04-002-03	Gasoline RVP 7: Breathing Loss (67000 Bbl. Capacity) - Fixed Roof Tank	---	---	---	---	16.5	---	---	1000 Gallon-Years Gasoline Storage Capacity
4-04-002-04	Gasoline RVP 13: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank	---	---	---	---	10	---	---	1000 Gallons Gasoline Throughput
4-04-002-05	Gasoline RVP 10: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank	---	---	---	---	8.2	---	---	1000 Gallons Gasoline Throughput
4-04-002-06	Gasoline RVP 7: Working Loss (67000 Bbl. Capacity) - Fixed Roof Tank	---	---	---	---	5.7	---	---	1000 Gallons Gasoline Throughput
4-04-002-11	Gasoline RVP 13: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	---	---	---	---	9.6	---	---	1000 Gallons Gasoline Throughput
4-04-002-12	Gasoline RVP 10: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	---	---	---	---	7.7	---	---	1000 Gallons Gasoline Throughput
4-04-002-13	Gasoline RVP 7: Filling Loss (10500 Bbl Cap.) - Variable Vapor Space	---	---	---	---	5.4	---	---	1000 Gallons Gasoline Throughput
4-04-002-50	Loading Racks	---	---	---	---	4.8	---	---	1000 Gallons Liquid Transferred
<b><u>Petroleum and Solvent Evaporation: Petroleum Liquids Storage (non-Refinery) - Oil and Gas Field Storage and Working Tanks - SIC 1311</u></b>									
4-04-003-01	Fixed Roof Tank: Breathing Loss	---	---	---	---	36	---	---	1000 Gallon-Years Liquid Storage Capacity
4-04-003-02	Fixed Roof Tank: Working Loss	---	---	---	---	1.1	---	---	1000 Gallons Liquid Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Petroleum Liquids Storage (non-Refinery)</u></b>									
<b><u>Petroleum and Solvent Evaporation: Petroleum Liquids Storage (non-Refinery) - Petroleum Products - Underground Tanks - SIC 5171, 4226</u></b>									
4-04-004-02	Gasoline RVP 13: Working Loss	---	---	---	---	14.9	---	---	1000 Gallons Gasoline Throughput
4-04-004-04	Gasoline RVP 10: Working Loss	---	---	---	---	11.9	---	---	1000 Gallons Gasoline Throughput
4-04-004-06	Gasoline RVP 7: Working Loss	---	---	---	---	8.3	---	---	1000 Gallons Gasoline Throughput
4-04-004-08	Crude Oil RVP 5: Working Loss	---	---	---	---	4.9	---	---	1000 Gallons Crude Oil Throughput
4-04-004-10	Jet Naphtha (JP-4): Working Loss	---	---	---	---	3.6	---	---	1000 Gallons Jet Naphtha Throughput
4-04-004-12	Jet Kerosene: Working Loss	---	---	---	---	0.04	---	---	1000 Gallons Jet Kerosene Throughput
4-04-004-14	Distillate Fuel #2: Working Loss	---	---	---	---	0.03	---	---	1000 Gallons Distillate Oil (No. 2) Throughput
<b><u>Petroleum and Solvent Evaporation - Printing/Publishing</u></b>									
<b><u>Petroleum and Solvent Evaporation: Printing/Publishing - Drying - SIC 2700</u></b>									
4-05-001-01	Dryer	---	---	---	57	2000	---	---	Tons Solvent in Ink Used
<b><u>Petroleum and Solvent Evaporation: Printing/Publishing - General - SIC 2751</u></b>									
4-05-002-01	Letter Press: 2751	---	---	---	---	238	---	---	Tons Ink Used
4-05-002-02	Ink Thinning Solvent (Kerosene)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-002-03	Ink Thinning Solvents (Mineral Solvents)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-002-11	Letter Press: 2751	---	---	---	---	1200	---	---	Tons Solvent in Ink Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Printing/Publishing</u></b>									
<b><u>Petroleum and Solvent Evaporation: Printing/Publishing - General - SIC 2751</u></b>									
4-05-002-12	Printing: Letter Press	---	---	---	---	1.5	---	---	Hallons Ink Used
<b><u>Petroleum and Solvent Evaporation: Printing/Publishing - General - SIC 2751</u></b>									
4-05-003-01	Printing: Flexographic	---	---	---	---	711	---	---	Tons Ink Used
4-05-003-02	Ink Thinning Solvent (Carbitol)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-003-03	Ink Thinning Solvent (Cellosolve)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-003-04	Ink Thinning Solvent (Ethyl Alcohol)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-003-05	Ink Thinning Solvent (Isopropyl Alcohol)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-003-06	Ink Thinning Solvent (n-Propyl Alcohol)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-003-07	Ink Thinning Solvent (Naphtha)	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-003-11	Printing: Flexographic	---	---	---	---	1910	---	---	Tons Solvent in Ink Used
4-05-003-12	Printing: Flexographic	---	---	---	---	4.4	---	---	Hallons Ink Used
4-05-003-14	Printing: Flexographic: Propyl Alcohol Cleanup	---	---	---	---	2000	---	---	Tons Solvent Consumed
<b><u>Petroleum and Solvent Evaporation: Printing/Publishing - General - SIC 2752</u></b>									
4-05-004-01	Lithographic: 2752	---	---	---	---	198	---	---	Tons Ink Used
4-05-004-11	Lithographic: 2752	---	---	---	---	1000	---	---	Tons Solvent in Ink Used
4-05-004-12	Lithographic: 2752	---	---	---	---	1.24	---	---	Hallons Ink Used

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Printing/Publishing</u></b>									
<b><u>Petroleum and Solvent Evaporation: Printing/Publishing - General - SIC 2751, 2754</u></b>									
4-05-005-01	Gravure: 2754	---	---	---	---	711	---	---	Tons Ink Used
4-05-005-02	Ink Thinning Solvent: Dimethylformamide	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-005-03	Ink Thinning Solvent: Ethyl Acetate	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-005-06	Ink Thinning Solvent: Methyl Ethyl Ketone	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-005-07	Ink Thinning Solvent: Methyl Isobutyl Ketone	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-005-10	Ink Thinning Solvent: Toluene	---	---	---	---	2000	---	---	Tons Solvent Added
4-05-005-11	Gravure: 2754	---	---	---	---	1910	---	---	Tons Solvent in Ink Used
4-05-005-12	Gravure: 2754	---	---	---	---	4.4	---	---	Hallons Ink Used
4-05-005-13	Gravure: 2754	---	---	---	---	12.4	---	---	Hallons Ink Used
4-05-005-99	Ink Thinning Solvent: Other Not Specified	---	---	---	---	2000	---	---	Tons Solvent Added
<b><u>Petroleum and Solvent Evaporation - Transportation and Marketing of Petroleum Products</u></b>									
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Tank Cars and Trucks - SIC 5169, 5171, 5172</u></b>									
4-06-001-01	Gasoline: Splash Loading **	---	---	---	---	12.4	---	---	1000 Gallons Gasoline Transferred
4-06-001-26	Gasoline: Submerged Loading **	---	---	---	---	4.1	---	---	1000 Gallons Gasoline Transferred



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Transportation and Marketing of Petroleum Products</u></b>									
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Tank Cars and Trucks - SIC 5169, 5171, 5172</u></b>									
4-06-001-30	Distillate Oil: Submerged Loading **	---	---	---	---	0.48	---	---	1000 Gallons Distillate Oil Transferred
4-06-001-31	Gasoline: Submerged Loading (Normal Service)	---	---	---	---	5	---	---	1000 Gallons Gasoline Transferred
4-06-001-32	Crude Oil: Submerged Loading (Normal Service)	---	---	---	---	2	---	---	1000 Gallons Crude Oil Transferred
4-06-001-33	Jet Naphtha: Submerged Loading (Normal Service)	---	---	---	---	1.5	---	---	1000 Gallons Jet Naphtha Transferred
4-06-001-34	Kerosene: Submerged Loading (Normal Services)	---	---	---	---	0.16	---	---	1000 Gallons Kerosene Transferred
4-06-001-35	Distillate Oil: Submerged Loading (Normal Service)	---	---	---	---	0.014	---	---	1000 Gallons Distillate Oil Transferred
4-06-001-36	Gasoline: Splash Loading (Normal Service)	---	---	---	---	12	---	---	1000 Gallons Gasoline Transferred
4-06-001-37	Crude Oil: Splash Loading (Normal Service)	---	---	---	---	5.5	---	---	1000 Gallons Crude Oil Transferred
4-06-001-38	Jet Naphtha: Splash Loading (Normal Service)	---	---	---	---	4	---	---	1000 Gallons Jet Naphtha Transferred
4-06-001-39	Kerosene: Splash Loading (Normal Service)	---	---	---	---	0.04	---	---	1000 Gallons Kerosene Transferred
4-06-001-40	Distillate Oil: Splash Loading (Normal Service)	---	---	---	---	0.03	---	---	1000 Gallons Distillate Oil Transferred
4-06-001-42	Crude Oil: Submerged Loading (Balanced Service)	---	---	---	---	3	---	---	1000 Gallons Crude Oil Transferred

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Transportation and Marketing of Petroleum Products</u></b>									
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Tank Cars and Trucks - SIC 5169, 5171, 5172</u></b>									
4-06-001-43	Jet Naphtha: Submerged Loading (Balanced Service)	---	---	---	---	2.5	---	---	1000 Gallons Jet Naphtha Transferred
4-06-001-44	Gasoline: Splash Loading (Balanced Service)	---	---	---	---	8	---	---	1000 Gallons Gasoline Transferred
4-06-001-45	Crude Oil: Splash Loading (Balanced Service)	---	---	---	---	3	---	---	1000 Gallons Crude Oil Transferred
4-06-001-46	Jet Naphtha: Splash Loading (Balanced Service)	---	---	---	---	2.5	---	---	1000 Gallons Jet Naphtha Transferred
4-06-001-47	Gasoline: Submerged Loading (Clean Tanks)	---	---	---	---	4	---	---	1000 Gallons Gasoline Transferred
4-06-001-48	Crude Oil: Submerged Loading (Clean Tanks)	---	---	---	---	1.7	---	---	1000 Gallons Crude Oil Transferred
4-06-001-49	Jet Naphtha: Submerged Loading (Clean Tanks)	---	---	---	---	1.5	---	---	1000 Gallons Jet Naphtha Transferred
4-06-001-60	Kerosene: Submerged Loading (Clean Tanks)	---	---	---	---	0.017	---	---	1000 Gallons Kerosene Transferred
4-06-001-61	Distillate Oil: Submerged Loading (Clean Tanks)	---	---	---	---	0.013	---	---	1000 Gallons Distillate Oil Transferred
4-06-001-62	Gasoline: Loaded with Fuel (Transit Losses)	---	---	---	---	0.01	---	---	1000 Gallons Gasoline Transferred
4-06-001-63	Gasoline: Return with Vapor (Transit Losses)	---	---	---	---	0.11	---	---	1000 Gallons Gasoline Transferred
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Marine Vessels - SIC 4491</u></b>									
4-06-002-31	Gasoline: Ship Loading - Cleaned and Vapor Free Tanks	---	---	---	---	0.7	---	---	1000 Gallons Gasoline Transferred

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Transportation and Marketing of Petroleum Products</u></b>									
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Marine Vessels - SIC 4491</u></b>									
4-06-002-32	Gasoline: Ocean Barges Loading	---	---	---	---	0.7	---	---	1000 Gallons Gasoline Transferred
4-06-002-34	Gasoline: Ship Loading - Ballasted Tank	---	---	---	---	1.7	---	---	1000 Gallons Gasoline Transferred
4-06-002-35	Gasoline: Ocean Barges Loading - Ballasted Tank	---	---	---	---	1.7	---	---	1000 Gallons Gasoline Transferred
4-06-002-36	Gasoline: Ship Loading - Uncleaned Tanks	---	---	---	---	2.6	---	---	1000 Gallons Gasoline Transferred
4-06-002-37	Gasoline: Ocean Barges Loading - Uncleaned Tanks	---	---	---	---	2.6	---	---	1000 Gallons Gasoline Transferred
4-06-002-38	Gasoline: Barges Loading - Uncleaned Tanks	---	---	---	---	3.9	---	---	1000 Gallons Gasoline Transferred
4-06-002-39	Gasoline: Tanker Ship - Ballasted Tank Condition	---	---	---	---	0.8	---	---	1000 Gallons Gasoline Transferred
4-06-002-40	Gasoline: Barge Loading - Average Tank Condition	---	---	---	---	3.4	---	---	1000 Gallons Gasoline Transferred
4-06-002-41	Gasoline: Tanker Ship - Ballasting	---	---	---	---	1.7	---	---	1000 Gallon-Years Total Cargo Capacity Existing
4-06-002-42	Gasoline: Transit Loss	---	---	---	---	140.4	---	---	1000 Gallons Gasoline Transported
4-06-002-43	Crude Oil: Loading Tankers	---	---	---	---	0.61	---	---	1000 Gallons Crude Oil Transferred
4-06-002-44	Jet Fuel: Loading Tankers	---	---	---	---	0.5	---	---	1000 Gallons Jet Fuel Transferred
4-06-002-45	Kerosene: Loading Tankers	---	---	---	---	0.005	---	---	1000 Gallons Kerosene Transferred

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Transportation and Marketing of Petroleum Products</u></b>									
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Marine Vessels - SIC 4491</u></b>									
4-06-002-46	Distillate Oil: Loading Tankers	---	---	---	---	0.005	---	---	1000 Gallons Distillate Oil Transferred
4-06-002-48	Crude Oil: Loading Barges	---	---	---	---	1	---	---	1000 Gallons Crude Oil Transferred
4-06-002-49	Jet Fuel: Loading Barges	---	---	---	---	1.2	---	---	1000 Gallons Jet Fuel Transferred
4-06-002-50	Kerosene: Loading Barges	---	---	---	---	0.013	---	---	1000 Gallons Kerosene Transferred
4-06-002-51	Distillate Oil: Loading Barges	---	---	---	---	0.012	---	---	1000 Gallons Distillate Oil Transferred
4-06-002-53	Crude Oil: Tanker Ballasting	---	---	---	---	1.1	---	---	1000 Gallon-Years Total Cargo Capacity Existing
4-06-002-54	Crude Oil: Transit Loss	---	---	---	---	69.6	---	---	1000 Gallons Crude Oil Transported
4-06-002-55	Jet Fuel: Transit Loss	---	---	---	---	57	---	---	1000 Gallons Jet Fuel Transported
4-06-002-56	Kerosene: Transit Loss	---	---	---	---	0.26	---	---	1000 Gallons Kerosene Transported
4-06-002-57	Distillate Oil: Transit Loss	---	---	---	---	0.26	---	---	1000 Gallons Distillate Oil Transported
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Gasoline Retail Operations - Stage I - SIC 5541</u></b>									
4-06-003-01	Splash Filling	---	---	---	---	11.5	---	---	1000 Gallons Gasoline Transferred
4-06-003-02	Submerged Filling w/o Controls	---	---	---	---	7.3	---	---	1000 Gallons Gasoline Transferred

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Transportation and Marketing of Petroleum Products</u></b>									
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Gasoline Retail Operations - Stage I - SIC 5541</u></b>									
4-06-003-05	Unloading **	---	---	---	---	1	---	---	1000 Gallons Gasoline Transferred
4-06-003-06	Balanced Submerged Filling	---	---	---	---	0.3	---	---	1000 Gallons Gasoline Throughput
4-06-003-07	Underground Tank Breathing and Emptying	---	---	---	---	1	---	---	1000 Gallons Gasoline Throughput
<b><u>Petroleum and Solvent Evaporation: Transportation and Marketing of Petroleum Products - Filling Vehicle Gas Tanks - Stage II - SIC 5541</u></b>									
4-06-004-01	Vapor Loss w/o Controls	---	---	---	---	11	---	---	1000 Gallons Gasoline Pumped
4-06-004-02	Liquid Spill Loss w/o Controls	---	---	---	---	0.7	---	---	1000 Gallons Gasoline Pumped
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Acid Anhydrides - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-004-01	Acetic Anhydrides: Breathing Loss	---	---	---	---	1.2	---	---	1000 Gallon-Years Acetic Anhydride Storage Capacity
4-07-004-02	Acetic Anhydrides: Working Loss	---	---	---	---	0.13	---	---	1000 Gallons Acetic Anhydride Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Alcohols - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-008-01	N-Butyl Alcohol: Breathing Loss	---	---	---	---	0.9	---	---	1000 Gallon-Years n-Butyl Alcohol Storage Capacity
4-07-008-02	N-Butyl Alcohol: Working Loss	---	---	---	---	0.1	---	---	1000 Gallons n-Butyl Alcohol Throughput
4-07-008-03	Sec-Butyl Alcohol: Breathing Loss	---	---	---	---	2	---	---	1000 Gallon-Years sec-Butyl Alcohol Storage Capacity
4-07-008-04	Sec-Butyl Alcohol: Working Loss	---	---	---	---	0.32	---	---	1000 Gallons sec-Butyl Alcohol Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Alcohols - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-008-05	Tert-Butyl Alcohol: Breathing Loss	---	---	---	---	3.6	---	---	1000 Gallon-Years tert-Butyl Alcohol Storage Capacity
4-07-008-06	Tert-Butyl Alcohol: Working Loss	---	---	---	---	0.76	---	---	1000 Gallons tert-Butyl Alcohol Throughput
4-07-008-07	Cyclohexanol: Breathing Loss	---	---	---	---	0.58	---	---	1000 Gallon-Years Cyclohexanol Storage Capacity
4-07-008-08	Cyclohexanol: Working Loss	---	---	---	---	0.046	---	---	1000 Gallons Cyclohexanol Throughput
4-07-008-09	Ethyl Alcohol: Breathing Loss	---	---	---	---	2.9	---	---	1000 Gallon-Years Ethanol Storage Capacity
4-07-008-10	Ethyl Alcohol: Working Loss	---	---	---	---	0.66	---	---	1000 Gallons Ethanol Throughput
4-07-008-11	Isobutyl Alcohol: Breathing Loss	---	---	---	---	1.3	---	---	1000 Gallon-Years Isobutyl Alcohol Storage Capacity
4-07-008-12	Isobutyl Alcohol: Working Loss	---	---	---	---	0.17	---	---	1000 Gallons Isobutyl Alcohol Throughput
4-07-008-13	Isopropyl Alcohol: Breathing Loss	---	---	---	---	3.8	---	---	1000 Gallon-Years Isopropanol Storage Capacity
4-07-008-14	Isopropyl Alcohol: Working Loss	---	---	---	---	0.86	---	---	1000 Gallons Isopropanol Throughput
4-07-008-15	Methyl Alcohol: Breathing Loss	---	---	---	---	3.7	---	---	1000 Gallon-Years Methanol Storage Capacity
4-07-008-16	Methyl Alcohol: Working Loss	---	---	---	---	1.07	---	---	1000 Gallons Methanol Throughput
4-07-008-17	N-Propyl Alcohol: Breathing Loss	---	---	---	---	1.8	---	---	1000 Gallon-Years n-Propyl Alcohol Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Alcohols - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-008-18	N-Propyl Alcohol: Working Loss	---	---	---	---	0.3	---	---	1000 Gallons n-Propyl Alcohol Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Alkanes (Paraffins) - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-016-01	N-Decane: Breathing Loss	---	---	---	---	0.61	---	---	1000 Gallon-Years n-Decane Storage Capacity
4-07-016-02	N-Decane: Working Loss	---	---	---	---	0.04	---	---	1000 Gallons n-Decane Throughput
4-07-016-03	N-Dodecane: Breathing Loss	---	---	---	---	0.13	---	---	1000 Gallon-Years n-Dodecane Storage Capacity
4-07-016-04	N-Dodecane: Working Loss	---	---	---	---	0.004	---	---	1000 Gallons n-Dodecane Throughput
4-07-016-05	N-Heptane: Breathing Loss	---	---	---	---	5.8	---	---	1000 Gallon-Years n-Heptane Storage Capacity
4-07-016-06	N-Heptane: Working Loss	---	---	---	---	1.3	---	---	1000 Gallons n-Heptane Throughput
4-07-016-07	Isopentane: Breathing Loss	---	---	---	---	57.2	---	---	1000 Gallon-Years Isopentane Storage Capacity
4-07-016-08	Isopentane: Working Loss	---	---	---	---	16.3	---	---	1000 Gallons Isopentane Throughput
4-07-016-09	Pentadecane: Breathing Loss	---	---	---	---	0.05	---	---	1000 Gallon-Years Pentadecane Storage Capacity
4-07-016-10	Pentadecane: Working Loss	---	---	---	---	0.0008	---	---	1000 Gallons Pentadecane Throughput
4-07-016-11	Naphtha: Breathing Loss	---	---	---	---	0.17	---	---	1000 Gallon-Years Naphtha Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Alkanes (Paraffins) - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-016-12	Naphtha: Working Loss	---	---	---	---	0.006	---	---	1000 Gallons Naphtha Throughput
4-07-016-13	Petroleum Distillate: Breathing Loss	---	---	---	---	0.17	---	---	1000 Gallon-Years Petroleum Distillate Storage Capacity
4-07-016-14	Petroleum Distillate: Working Loss	---	---	---	---	0.006	---	---	1000 Gallons Petroleum Distillate Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Alkenes (Olefins) - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-020-01	Dodecene: Breathing Loss	---	---	---	---	0.15	---	---	1000 Gallon-Years Dodecene Storage Capacity
4-07-020-02	Dodecene: Working Loss	---	---	---	---	0.005	---	---	1000 Gallons Dodecene Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Amines - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-032-01	Aniline: Breathing Loss	---	---	---	---	0.24	---	---	1000 Gallon-Years Aniline Storage Capacity
4-07-032-02	Aniline: Working Loss	---	---	---	---	0.13	---	---	1000 Gallons Aniline Throughput
4-07-032-03	Ethanolamines: Breathing Loss	---	---	---	---	0.1	---	---	1000 Gallon-Years Ethanolamines Storage Capacity
4-07-032-04	Ethanolamines: Working Loss	---	---	---	---	0.004	---	---	1000 Gallons Ethanolamines Throughput
4-07-032-05	Ethyleneamines: Breathing Loss	---	---	---	---	7	---	---	1000 Gallon-Years Ethyleneamines Storage Capacity
4-07-032-06	Ethyleneamines: Working Loss	---	---	---	---	2.6	---	---	1000 Gallons Ethyleneamines Throughput



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Aromatics - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-036-01	Benzene: Breathing Loss	---	---	---	---	8	---	---	1000 Gallon-Years Benzene Storage Capacity
4-07-036-02	Benzene: Working Loss	---	---	---	---	2.25	---	---	1000 Gallons Benzene Throughput
4-07-036-03	Cresol: Breathing Loss	---	---	---	---	0.13	---	---	1000 Gallon-Years Cresol Storage Capacity
4-07-036-04	Cresol: Working Loss	---	---	---	---	0.005	---	---	1000 Gallons Cresol Throughput
4-07-036-05	Cumene: Breathing Loss	---	---	---	---	1.4	---	---	1000 Gallon-Years Cumene Storage Capacity
4-07-036-06	Cumene: Working Loss	---	---	---	---	0.16	---	---	1000 Gallons Cumene Throughput
4-07-036-09	Ethyl Benzene: Breathing Loss	---	---	---	---	2	---	---	1000 Gallon-Years Ethyl Benzene Storage Capacity
4-07-036-10	Ethyl Benzene: Working Loss	---	---	---	---	0.26	---	---	1000 Gallons Ethyl Benzene Throughput
4-07-036-11	Methyl Styrene: Breathing Loss	---	---	---	---	0.64	---	---	1000 Gallon-Years Methyl Styrene Storage Capacity
4-07-036-12	Methyl Styrene: Working Loss	---	---	---	---	0.05	---	---	1000 Gallons Methyl Styrene Throughput
4-07-036-13	Styrene: Breathing Loss	---	---	---	---	1.4	---	---	1000 Gallon-Years Styrene Storage Capacity
4-07-036-14	Styrene: Working Loss	---	---	---	---	0.17	---	---	1000 Gallons Styrene Throughput
4-07-036-15	Toluene: Breathing Loss	---	---	---	---	3.5	---	---	1000 Gallon-Years Toluene Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Aromatics - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-036-16	Toluene: Working Loss	---	---	---	---	0.66	---	---	1000 Gallons Toluene Throughput
4-07-036-17	m-Xylene: Breathing Loss	---	---	---	---	1.8	---	---	1000 Gallon-Years m-Xylene Storage Capacity
4-07-036-18	m-Xylene: Working Loss	---	---	---	---	0.23	---	---	1000 Gallons m-Xylene Throughput
4-07-036-19	o-Xylene: Breathing Loss	---	---	---	---	1.5	---	---	1000 Gallon-Years o-Xylene Storage Capacity
4-07-036-20	o-Xylene: Working Loss	---	---	---	---	0.18	---	---	1000 Gallons o-Xylene Throughput
4-07-036-21	p-Xylene: Breathing Loss	---	---	---	---	1.9	---	---	1000 Gallon-Years p-Xylene Storage Capacity
4-07-036-22	p-Xylene: Working Loss	---	---	---	---	0.24	---	---	1000 Gallons p-Xylene Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Carboxylic Acids - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-040-01	Acetic Acid: Breathing Loss	---	---	---	---	1.5	---	---	1000 Gallon-Years Acetic Acid Storage Capacity
4-07-040-02	Acetic Acid: Working Loss	---	---	---	---	0.24	---	---	1000 Gallons Acetic Acid Throughput
4-07-040-03	Acrylic Acid: Breathing Loss	---	---	---	---	0.65	---	---	1000 Gallon-Years Acrylic Acid Storage Capacity
4-07-040-04	Acrylic Acid: Working Loss	---	---	---	---	0.064	---	---	1000 Gallons Acrylic Acid Throughput
4-07-040-05	Adipic Acid (Soln): Breathing Loss	---	---	---	---	0.0003	---	---	1000 Gallon-Years Adipic Acid (Soln) Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Carboxylic Acids - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-040-07	Formic Acid: Breathing Loss	---	---	---	---	2.6	---	---	1000 Gallon-Years Formic Acid Storage Capacity
4-07-040-08	Formic Acid: Working Loss	---	---	---	---	0.57	---	---	1000 Gallons Formic Acid Throughput
4-07-040-09	Propionic Acid: Breathing Loss	---	---	---	---	0.63	---	---	1000 Gallon-Years Propionic Acid Storage Capacity
4-07-040-10	Propionic Acid: Working Loss	---	---	---	---	0.06	---	---	1000 Gallons Propionic Acid Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Esters - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-044-01	Butyl Acetate: Breathing Loss	---	---	---	---	2.4	---	---	1000 Gallon-Years Butyl Acetate Storage Capacity
4-07-044-02	Butyl Acetate: Working Loss	---	---	---	---	0.34	---	---	1000 Gallons Butyl Acetate Throughput
4-07-044-03	Butyl Acrylate: Breathing Loss	---	---	---	---	1.59	---	---	1000 Gallon-Years Butyl Acrylate Storage Capacity
4-07-044-04	Butyl Acrylate: Working Loss	---	---	---	---	0.2	---	---	1000 Gallons Butyl Acrylate Throughput
4-07-044-05	Ethyl Acetate: Breathing Loss	---	---	---	---	8.5	---	---	1000 Gallon-Years Ethyl Acetate Storage Capacity
4-07-044-06	Ethyl Acetate: Working Loss	---	---	---	---	2.3	---	---	1000 Gallons Ethyl Acetate Throughput
4-07-044-07	Ethyl Acrylate: Breathing Loss	---	---	---	---	5.2	---	---	1000 Gallon-Years Ethyl Acrylate Storage Capacity
4-07-044-08	Ethyl Acrylate: Working Loss	---	---	---	---	1.1	---	---	1000 Gallons Ethyl Acrylate Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Esters - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-044-11	Isopropyl Acetate: Breathing Loss	---	---	---	---	7.3	---	---	1000 Gallon-Years Isopropyl Acetate Storage Capacity
4-07-044-12	Isopropyl Acetate: Working Loss	---	---	---	---	1.8	---	---	1000 Gallons Isopropyl Acetate Throughput
4-07-044-13	Methyl Acetate: Breathing Loss	---	---	---	---	14.4	---	---	1000 Gallon-Years Methyl Acetate Storage Capacity
4-07-044-14	Methyl Acetate: Working Loss	---	---	---	---	4.8	---	---	1000 Gallons Methyl Acetate Throughput
4-07-044-15	Methyl Acrylate: Breathing Loss	---	---	---	---	8.2	---	---	1000 Gallon-Years Methyl Acrylate Storage Capacity
4-07-044-16	Methyl Acrylate: Working Loss	---	---	---	---	2.2	---	---	1000 Gallons Methyl Acrylate Throughput
4-07-044-17	Methyl Methacrylate: Breathing Loss	---	---	---	---	3.8	---	---	1000 Gallon-Years Methyl Methacrylate Storage Capacity
4-07-044-18	Methyl Methacrylate: Working Loss	---	---	---	---	0.7	---	---	1000 Gallons Methyl Methacrylate Throughput
4-07-044-19	Vinyl Acetate: Breathing Loss	---	---	---	---	9.4	---	---	1000 Gallon-Years Vinyl Acetate Storage Capacity
4-07-044-20	Vinyl Acetate: Working Loss	---	---	---	---	2.7	---	---	1000 Gallons Vinyl Acetate Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Glycol Ethers - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-052-09	Diethylene Glycol: Breathing Loss	---	---	---	---	0.003	---	---	1000 Gallon-Years Diethylene Glycol Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Glycols - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-056-03	Ethylene Glycol: Breathing Loss	---	---	---	---	0.052	---	---	1000 Gallon-Years Ethylene Glycol Storage Capacity
4-07-056-04	Ethylene Glycol: Working Loss	---	---	---	---	0.002	---	---	1000 Gallons Ethylene Glycol Throughput
4-07-056-09	Propylene Glycol: Breathing Loss	---	---	---	---	0.007	---	---	1000 Gallon-Years Propylene Glycol Storage Capacity
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Halogenated Organics - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-060-05	Carbon Tetrachloride: Breathing Loss	---	---	---	---	17.8	---	---	1000 Gallon-Years Carbon Tetrachloride Storage Capacity
4-07-060-06	Carbon Tetrachloride: Working Loss	---	---	---	---	5.2	---	---	1000 Gallons Carbon Tetrachloride Throughput
4-07-060-07	Chlorobenzene: Breathing Loss	---	---	---	---	2.5	---	---	1000 Gallon-Years Chlorobenzene Storage Capacity
4-07-060-08	Chlorobenzene: Working Loss	---	---	---	---	0.36	---	---	1000 Gallons Chlorobenzene Throughput
4-07-060-09	o-Dichlorobenzene: Breathing Loss	---	---	---	---	0.69	---	---	1000 Gallon-Years o-Dichlorobenzene Storage Capacity
4-07-060-10	o-Dichlorobenzene: Working Loss	---	---	---	---	0.05	---	---	1000 Gallons o-Dichlorobenzene Throughput
4-07-060-11	p-Dichlorobenzene: Breathing Loss	---	---	---	---	0.82	---	---	1000 Gallon-Years p-Dichlorobenzene Storage Capacity
4-07-060-12	p-Dichlorobenzene: Working Loss	---	---	---	---	0.06	---	---	1000 Gallons p-Dichlorobenzene Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Halogenated Organics - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-060-13	Epichlorohydrin: Breathing Loss	---	---	---	---	2.5	---	---	1000 Gallon-Years Epichlorohydrin Storage Capacity
4-07-060-14	Epichlorohydrin: Working Loss	---	---	---	---	0.4	---	---	1000 Gallons Epichlorohydrin Throughput
4-07-060-15	Ethylene Dibromide: Breathing Loss	---	---	---	---	4.9	---	---	1000 Gallon-Years Ethylene Dibromide Storage Capacity
4-07-060-16	Ethylene Dibromide: Working Loss	---	---	---	---	0.77	---	---	1000 Gallons Ethylene Dibromide Throughput
4-07-060-17	Ethylene Dichloride: Breathing Loss	---	---	---	---	8.7	---	---	1000 Gallon-Years Ethylene Dichloride Storage Capacity
4-07-060-18	Ethylene Dichloride: Working Loss	---	---	---	---	2.3	---	---	1000 Gallons Ethylene Dichloride Throughput
4-07-060-21	Perchloroethylene: Breathing Loss	---	---	---	---	5	---	---	1000 Gallon-Years Perchloroethylene Storage Capacity
4-07-060-22	Perchloroethylene: Working Loss	---	---	---	---	0.84	---	---	1000 Gallons Perchloroethylene Throughput
4-07-060-23	Trichloroethylene: Breathing Loss	---	---	---	---	11.1	---	---	1000 Gallon-Years Trichloroethylene Storage Capacity
4-07-060-24	Trichloroethylene: Working Loss	---	---	---	---	2.9	---	---	1000 Gallons Trichloroethylene Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Isocyanates - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-064-03	TDI: Breathing Loss	---	---	---	---	0.044	---	---	1000 Gallon-Years Toluene Diisocyanate Storage Capacity

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Isocyanates - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-064-04	TDI: Working Loss	---	---	---	---	0.0008	---	---	1000 Gallons Toluene Diisocyanate Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Ketones - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-068-01	Cyclohexanone: Breathing Loss	---	---	---	---	1.7	---	---	1000 Gallon-Years Cyclohexanone Storage Capacity
4-07-068-02	Cyclohexanone: Working Loss	---	---	---	---	0.2	---	---	1000 Gallons Cyclohexanone Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Nitriles - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-076-01	Acrylonitrile: Breathing Loss	---	---	---	---	6.1	---	---	1000 Gallon-Years Acrylonitrile Storage Capacity
4-07-076-02	Acrylonitrile: Working Loss	---	---	---	---	1.8	---	---	1000 Gallons Acrylonitrile Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Nitro Compounds - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-080-01	Nitrobenzene: Breathing Loss	---	---	---	---	0.43	---	---	1000 Gallon-Years Nitrobenzene Storage Capacity
4-07-080-02	Nitrobenzene: Working Loss	---	---	---	---	0.027	---	---	1000 Gallons Nitrobenzene Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Fixed Roof Tanks - Phenols - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-084-03	Phenol: Breathing Loss	---	---	---	---	0.15	---	---	1000 Gallon-Years Phenol Storage Capacity
4-07-084-04	Phenol: Working Loss	---	---	---	---	0.006	---	---	1000 Gallons Phenol Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

**Petroleum and Solvent Evaporation - Organic Chemical Storage**

**Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Aldehydes - SIC 2800, 2900, 3000, 5100**

4-07-172-05	n-Butyraldehyde: Standing Loss	---	---	---	---	1.4	---	---	1000 Gallon-Years n-Butyraldehyde Storage Capacity
4-07-172-06	n-Butyraldehyde: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons n-Butyraldehyde Throughput
4-07-172-09	Isobutyraldehyde: Standing Loss	---	---	---	---	2.4	---	---	1000 Gallon-Years Isobutyraldehyde Storage Capacity
4-07-172-11	Propionaldehyde: Standing Loss	---	---	---	---	3.9	---	---	1000 Gallon-Years Propionaldehyde Storage Capacity
4-07-172-12	Propionaldehyde: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Propionaldehyde Throughput

**Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Alkanes (Paraffins) - SIC 2800, 2900, 3000, 5100**

4-07-176-01	Cyclohexane: Standing Loss	---	---	---	---	1.47	---	---	1000 Gallon-Years Cyclohexane Storage Capacity
4-07-176-02	Cyclohexane: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Cyclohexane Throughput
4-07-176-03	n-Hexane: Standing Loss	---	---	---	---	2.5	---	---	1000 Gallon-Years n-Hexane Storage Capacity
4-07-176-04	n-Hexane: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons n-Hexane Throughput
4-07-176-05	n-Pentane: Standing Loss	---	---	---	---	9.4	---	---	1000 Gallon-Years n-Pentane Storage Capacity
4-07-176-06	n-Pentane: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons n-Pentane Throughput



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Alkenes (Olefins) - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-180-01	Isoprene: Standing Loss	---	---	---	---	9.7	---	---	1000 Gallon-Years Isoprene Storage Capacity
4-07-180-02	Isoprene: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Isoprene Throughput
4-07-180-05	1-Pentene: Standing Loss	---	---	---	---	12.6	---	---	1000 Gallon-Years 1-Pentene Storage Capacity
4-07-180-06	1-Pentene: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons 1-Pentene Throughput
4-07-180-07	Piperylene: Standing Loss	---	---	---	---	6.4	---	---	1000 Gallon-Years Piperylene Storage Capacity
4-07-180-08	Piperylene: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Piperylene Throughput
4-07-180-09	Cyclopentene: Standing Loss	---	---	---	---	5.8	---	---	1000 Gallon-Years Cyclopentene Storage Capacity
4-07-180-10	Cyclopentene: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Cyclopentene Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Ethers - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-208-01	Ethyl Ether: Standing Loss	---	---	---	---	9.9	---	---	1000 Gallon-Years Ethyl Ether Storage Capacity
4-07-208-02	Ethyl Ether: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Ethyl Ether Throughput
4-07-208-03	Propylene Oxide: Standing Loss	---	---	---	---	7.8	---	---	1000 Gallon-Years Propylene Oxide Storage Capacity
4-07-208-04	Propylene Oxide: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Propylene Oxide Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Halogenated Organics - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-220-01	Carbon Tetrachloride: Standing Loss	---	---	---	---	3.2	---	---	1000 Gallon-Years Carbon Tetrachloride Storage Capacity
4-07-220-02	Carbon Tetrachloride: Withdrawal Loss	---	---	---	---	0.004	---	---	1000 Gallons Carbon Tetrachloride Throughput
4-07-220-03	Chloroform: Standing Loss	---	---	---	---	4.6	---	---	1000 Gallon-Years Chloroform Storage Capacity
4-07-220-04	Chloroform: Withdrawal Loss	---	---	---	---	0.004	---	---	1000 Gallons Chloroform Throughput
4-07-220-05	Ethylene Dichloride: Standing Loss	---	---	---	---	1.4	---	---	1000 Gallon-Years Ethylene Dichloride Storage Capacity
4-07-220-06	Ethylene Dichloride: Withdrawal Loss	---	---	---	---	0.003	---	---	1000 Gallons Ethylene Dichloride Throughput
4-07-220-09	1,1,1-Trichloroethylene: Standing Loss	---	---	---	---	0.56	---	---	1000 Gallon-Years Trichloroethylene Storage Capacity
4-07-220-10	1,1,1-Trichloroethylene: Withdrawal Loss	---	---	---	---	0.004	---	---	1000 Gallons Trichloroethylene Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Ketones - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-228-01	Acetone: Standing Loss	---	---	---	---	2.6	---	---	1000 Gallon-Years Acetone Storage Capacity
4-07-228-02	Acetone: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Acetone Throughput
4-07-228-03	Methyl Ethyl Ketone: Standing Loss	---	---	---	---	1.3	---	---	1000 Gallon-Years Methyl Ethyl Ketone Storage Capacity
4-07-228-04	Methyl Ethyl Ketone: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Methyl Ethyl Ketone Throughput

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Chemical Storage</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Ketones - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-228-05	Methyl Isobutyl Ketone: Standing Loss	---	---	---	---	0.31	---	---	1000 Gallon-Years Methyl Isobutyl Ketone Storage Capacity
4-07-228-06	Methyl Isobutyl Ketone: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Methyl Isobutyl Ketone Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Floating Roof Tanks - Mercaptans - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-232-01	Ethyl Mercaptan: Standing Loss	---	---	---	---	8.2	---	---	1000 Gallon-Years Ethyl Mercaptan Storage Capacity
4-07-232-02	Ethyl Mercaptan: Withdrawal Loss	---	---	---	---	0.002	---	---	1000 Gallons Ethyl Mercaptan Throughput
<b><u>Petroleum and Solvent Evaporation: Organic Chemical Storage - Miscellaneous - SIC 2800, 2900, 3000, 5100</u></b>									
4-07-999-97	Specify in Comments	---	---	---	---	1.44	---	---	Tons Carbon Black Produced
<b><u>Petroleum and Solvent Evaporation - Organic Solvent Evaporation</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Solvent Extraction Process - SIC 4000, 4700, 7600</u></b>									
4-90-001-01	Petroleum Naphtha (Stoddard)	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-90-001-02	Methyl Ethyl Ketone	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-90-001-03	Methyl Isobutyl Ketone	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-90-001-04	Furfural	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-90-001-05	Trichloroethylene	---	---	---	---	2000	---	---	Tons Solvent Consumed
4-90-001-99	Other Not Classified	---	---	---	---	2000	---	---	Tons Solvent Consumed

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Solvent Evaporation</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Waste Solvent Recovery Operations - SIC 4000, 4700, 7600</u></b>									
4-90-002-01	Storage Tank Vent	---	---	---	---	0.02	---	---	Tons Reclaimed Solvent Produced
4-90-002-02	Condenser Vent	---	---	---	---	3.3	---	---	Tons Reclaimed Solvent Produced
4-90-002-03	Incinerator Stack	1.44	0.89	---	---	0.02	---	---	Tons Reclaimed Solvent Produced
4-90-002-04	Solvent Spillage	---	---	---	---	0.2	---	---	Tons Reclaimed Solvent Produced
4-90-002-05	Solvent Loading	---	---	---	---	0.72	---	---	Tons Reclaimed Solvent Produced
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Rail Car Cleaning - SIC 4742, 4011, 4013</u></b>									
4-90-003-01	Ethylene Glycol	---	---	---	---	0.0007	---	---	Each Tank Car Cleaned
4-90-003-02	Chlorobenzene	---	---	---	---	0.035	---	---	Each Tank Car Cleaned
4-90-003-03	o-Dichlorobenzene	---	---	---	---	0.166	---	---	Each Tank Car Cleaned
4-90-003-04	Creosote	---	---	---	---	5.18	---	---	Each Tank Car Cleaned
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Tank Truck Cleaning - SIC 4000, 4700, 7600</u></b>									
4-90-004-01	Acetone	---	---	---	---	0.69	---	---	Each Tank Truck Cleaned
4-90-004-02	Perchloroethylene	---	---	---	---	0.474	---	---	Each Tank Truck Cleaned
4-90-004-03	Methyl Methacrylate	---	---	---	---	0.071	---	---	Each Tank Truck Cleaned
4-90-004-04	Phenol	---	---	---	---	0.012	---	---	Each Tank Truck Cleaned
4-90-004-05	Propylene Glycol	---	---	---	---	0.002	---	---	Each Tank Truck Cleaned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Petroleum and Solvent Evaporation - Organic Solvent Evaporation</u></b>									
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Air Stripping Tower - SIC 4000, 4700, 7600</u></b>									
4-90-005-01	Trichloroethylene	---	---	---	---	2000	---	---	Tons Solvent Stripped
4-90-005-02	Perchloroethylene	---	---	---	---	2000	---	---	Tons Solvent Stripped
4-90-005-04	Chloroform	---	---	---	---	2000	---	---	Tons Solvent Stripped
<b><u>Petroleum and Solvent Evaporation: Organic Solvent Evaporation - Fuel Fired Equipment - SIC 4000, 4700, 7600</u></b>									
4-90-900-11	Distillate Oil (No. 2): Incinerators	---	---	---	---	0.4	---	---	1000 Gallons Distillate Oil (No. 2) Burned
4-90-900-12	Residual Oil: Incinerators	---	---	---	---	0.56	---	---	1000 Gallons Residual Oil Burned
4-90-900-13	Natural Gas: Incinerators	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned
4-90-900-23	Natural Gas: Flares	---	---	---	---	5.6	---	---	Million Cubic Feet Natural Gas Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
-----	--------------	----------------	------------------	-----------------	-----------------	-----------------	----------------	------------------	-------

## **Waste Disposal**

### **Waste Disposal - Solid Waste Disposal - Government**

#### **Waste Disposal: Solid Waste Disposal - Government - Municipal Incineration - SIC 4953**

5-01-001-01	Starved Air: Multiple Chamber	1.9	1.4	1.7	3.16	1.5	0.299	0.12	Tons Solid Waste Burned
5-01-001-02	Mass Burn: Single Chamber	38	14	1.7	3.6	0.1	2.2	0.18	Tons Solid Waste Burned
5-01-001-03	Refuse Derived Fuel	80	44	1.7	5.02	---	1.92	0.201	Tons Refuse Derived Fuel Burned
5-01-001-04	Mass Burn Refractory Wall Combustor	---	7 25.1	10 3.46	2.46	---	1.37	0.213	Tons Solid Waste Burned
5-01-001-05	Mass Burn Waterwall Combustor	---	7 25.1	10 3.46	3.56	---	0.463	0.213	Tons Solid Waste Burned
5-01-001-06	Mass Burn Rotary Waterwall Combustor	---	7 25.1	10 3.46	2.25	---	0.766	0.213	Tons Solid Waste Burned
5-01-001-07	Modular Excess Air Combustor	---	7 25.1	10 3.46	2.47	---	---	0.213	Tons Solid Waste Burned

#### **Waste Disposal: Solid Waste Disposal - Government - Open Burning Dump - SIC 4953**

5-01-002-01	General Refuse	16	16	1	6	30	85	---	Tons Refuse Burned
5-01-002-02	Vegetation Only	17	---	---	4	19	140	---	Tons Vegetation Burned

#### **Waste Disposal: Solid Waste Disposal - Government - Landfill Dump - SIC 4953**

5-01-004-10	Waste Gas Destruction: Waste Gas Flares	---	7 17	---	40	---	750	---	Million Dry Standard Cubic Feet Methane Generat
5-01-004-20	Waste Gas Recovery: Gas Turbines	---	7 22	---	87	---	230	---	Million Dry Standard Cubic Feet Methane Generat
5-01-004-21	Waste Gas Recovery: Internal Combustion Device	---	7 48	---	250	---	470	---	Million Dry Standard Cubic Feet Methane Generat

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Waste Disposal - Solid Waste Disposal - Government</u></b>									
<b><u>Waste Disposal: Solid Waste Disposal - Government - Landfill Dump - SIC 4953</u></b>									
5-01-004-23	Waste Gas Recovery: Boiler	---	<sup>7</sup> 8.2	---	33	---	5.7	---	Million Dry Standard Cubic Feet Methane Generat
<b><u>Waste Disposal: Solid Waste Disposal - Government - Other Incineration - SIC 4953</u></b>									
5-01-005-06	Sludge	---	---	---	<sup>13</sup> 1.04	---	<sup>13</sup> 7.73	---	Tons Dried Sludge Burned
5-01-005-07	Conical Design (Tee Pee) Municipal Refuse	20	11	2	5	20	60	---	Tons Refuse Burned
5-01-005-08	Conical Design (Tee Pee) Wood Refuse	See App. C	3.85	0.1	1	11	130	---	Tons Wood Refuse Burned
5-01-005-10	Trench Burner: Wood	13	4.94	0.1	4	19	---	---	Tons Wood Burned
5-01-005-11	Trench Burner: Tires	138	52.4	---	---	6	---	---	Tons Tires Burned
5-01-005-12	Trench Burner: Refuse	37	14.1	2.5	---	13	---	---	Tons Refuse Burned
5-01-005-15	Sludge: Multiple Hearth	100	8.2	20	5	1.7	31	0.1	Tons Dried Sludge Fed
5-01-005-16	Sludge: Fluidized Bed	460	---	<sup>10</sup> 0.3	1.7	---	2.1	0.04	Tons Dried Sludge Fed
5-01-005-17	Sludge: Electric Infrared	7.4	6	20	8.6	---	---	---	Tons Dried Sludge Fed
<b><u>Waste Disposal: Solid Waste Disposal - Government - Sewage Treatment - SIC 4952</u></b>									
5-01-007-01	Entire Plant	---	---	---	---	8.9	---	---	Million Gallons Wastewater Processed
<b><u>Waste Disposal - Solid Waste Disposal - Commercial/Institutional</u></b>									
<b><u>Waste Disposal: Solid Waste Disposal - Commercial/Institutional - Incineration - SIC 4900</u></b>									
5-02-001-01	Multiple Chamber	7	4.7	2.5	3	3	10	---	Tons Solid Waste Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Waste Disposal - Solid Waste Disposal - Commercial/Institutional</u></b>									
<b><u>Waste Disposal: Solid Waste Disposal - Commercial/Institutional - Incineration - SIC 4900</u></b>									
5-02-001-02	Single Chamber	15	5.7	2.5	2	15	20	---	Tons Solid Waste Burned
5-02-001-03	Controlled Air	---	1.04	---	---	---	---	---	Tons Solid Waste Burned
5-02-001-04	Conical Design (Tee Pee) Municipal Refuse	20	11	2	5	20	60	---	Tons Refuse Burned
5-02-001-05	Conical Design (Tee Pee) Wood Refuse	7	3.85	0.1	1	11	130	---	Tons Wood Refuse Burned
<b><u>Waste Disposal: Solid Waste Disposal - Commercial/Institutional - Open Burning - SIC 4900</u></b>									
5-02-002-01	Wood	17	---	---	4	19	140	---	Tons Wood Burned
5-02-002-02	Refuse	16	16	1	6	30	85	---	Tons Refuse Burned
<b><u>Waste Disposal: Solid Waste Disposal - Commercial/Institutional - Apartment Incineration - SIC 4900</u></b>									
5-02-003-01	Flue Fed	30	11.4	0.5	3	15	20	---	Tons Solid Waste Burned
5-02-003-02	Flue Fed with Afterburner and Draft Controls	6	4.02	0.5	10	3	10	---	Tons Solid Waste Burned
<b><u>Waste Disposal: Solid Waste Disposal - Commercial/Institutional - Incineration: Special Purpose - SIC 4900</u></b>									
5-02-005-01	Med Waste Controlled Air Incin- aka Starved air, 2-stg, or Modular comb	---	<b>7</b>	<b>10</b>	3.56	---	2.95	0.0728	Tons Medical Waste Burned
			4.67	2.17					
5-02-005-03	Medical Waste Rotary Kiln Incinerator	34.5	---	<b>10</b> 1.09	4.63	---	0.382	0.124	Tons Medical Waste Burned
<b><u>Waste Disposal: Solid Waste Disposal - Commercial/Institutional - Landfill Dump - SIC 4900</u></b>									
5-02-006-01	Waste Gas Flares ** (Use 5-01-004- 10)	---	---	---	---	5.6	---	---	Million Cubic Feet Waste Gas Burned



SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Waste Disposal - Solid Waste Disposal - Commercial/Institutional</u></b>									
<b><u>Waste Disposal: Solid Waste Disposal - Commercial/Institutional - Landfill Dump - SIC 4900</u></b>									
5-02-006-02	Municipal: Fugitive Emissions ** (Use 5-01-004-02)	---	---	---	---	---	---	---	Million Btus Heat Input
<b><u>Waste Disposal - Solid Waste Disposal - Industrial</u></b>									
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Incineration - SIC 4900</u></b>									
5-03-001-01	Multiple Chamber	7	4.7	2.5	3	3	10	---	Tons Solid Waste Burned
5-03-001-02	Single Chamber	15	5.7	2.5	2	15	20	0.00181	Tons Solid Waste Burned
5-03-001-03	Controlled Air	---	1.04	---	---	---	---	---	Tons Solid Waste Burned
5-03-001-04	Conical Design (Tee Pee) Municipal Refuse	20	11	2	5	20	60	---	Tons Refuse Burned
5-03-001-05	Conical Design (Tee Pee) Wood Refuse	7	3.85	0.1	1	11	130	---	Tons Wood Refuse Burned
5-03-001-06	Trench Burner: Wood	13	4.94	0.1	4	---	---	---	Tons Wood Burned
5-03-001-07	Trench Burner: Tires	138	52.4	---	---	6	---	---	Tons Tires Burned
5-03-001-08	Auto Body Components	2	1.2	---	0.1	---	2.5	---	Each Vehicle Burned
5-03-001-09	Trench Burner: Refuse	37	14.1	2.5	---	13	---	---	Tons Refuse Burned
5-03-001-11	Mass Burn Refractory Wall Combustor	---	7 25.1	10 3.46	2.46	---	1.37	0.213	Tons Solid Waste Burned
5-03-001-12	Mass Burn Waterwall Combustor	---	7 25.1	10 3.46	3.56	---	0.463	0.213	Tons Solid Waste Burned
5-03-001-13	Mass Burn Rotary Waterwall Combustor	---	7 25.1	10 3.46	2.25	---	0.766	0.213	Tons Solid Waste Burned

SCC	PROCESS NAME	PM Lbs/Unit	PM10 Lbs/Unit	SOx Lbs/Unit	NOx Lbs/Unit	VOC Lbs/Unit	CO Lbs/Unit	Lead Lbs/Unit	UNITS
<b><u>Waste Disposal - Solid Waste Disposal - Industrial</u></b>									
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Incineration - SIC 4900</u></b>									
5-03-001-14	Modular Starved-air Combustor	---	<sup>7</sup> 3.43	<sup>10</sup> 3.23	3.16	---	0.299	---	Tons Solid Waste Burned
5-03-001-15	Modular Excess-air Combustor	---	<sup>7</sup> 25.1	<sup>10</sup> 3.46	2.47	---	---	0.213	Tons Solid Waste Burned
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Open Burning - SIC 4900</u></b>									
5-03-002-01	Wood/Vegetation/Leaves	17	17	---	4	---	---	---	Tons Wood/Vegetation/Leaves Burned
5-03-002-02	Refuse	16	16	1	6	30	85	---	Tons Refuse Burned
5-03-002-03	Auto Body Components	See App. C	100	---	See App. C	32	See App. C	See App. C	footnote 46
5-03-002-04	Coal Refuse Piles	---	0.18	---	---	---	---	---	Cubic Yards Material Burned
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Incineration - SIC 4900</u></b>									
5-03-005-01	Hazardous Waste	---	0.2	---	---	---	---	---	Million Btus Heat Input
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Landfill Dump - SIC 4900</u></b>									
5-03-006-01	Waste Gas Flares	---	<sup>7</sup> 17	<sup>10, 13</sup> 0.00000575	40	---	750	---	Million Dry Standard Cubic Feet Methane Generated
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Liquid Waste - SIC 4900</u></b>									
5-03-007-01	General	3.8	3.8	---	42.6	4.5	---	---	1000 Gallons Liquid Waste Burned
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Treatment, Storage, Disposal/TSDf - SIC 4900</u></b>									
5-03-008-30	Containers: Fugitive Emissions	---	---	---	---	222	---	---	1000 Each-Year Containers Stored

# **APPENDIX B**

## **UNCONTROLLED PM<sub>2.5</sub> EMISSION FACTORS**

This page is intentionally left blank.

## FOOTNOTES FOR APPENDIX B: UNCONTROLLED EMISSION FACTOR LISTING FOR $PM_{2.5}$

1. Where A = Ash weight percent of fuel, as fired. For example if ash weight of the fuel is 8.2% then A = 8.2.
2. Emission factor is for  $PM_{2.5, total}$ .
3. Where A = weight % ash content of lignite, wet basis. For example, if lignite is 3.4% ash, then A = 3.4.
4. For Number 6 Oil,  $A = 1.12(S) + 0.37$ ; for No. 5 Oil,  $A = 1.2$ ; for No. 4,  $A = 0.84$ ; for No. 2 Oil,  $A = 0.24$ ; S = Sulfur Content weight percent. (Factor is derived: 52% of the PM, total factor).
5. For Number 6 Oil,  $A = 1.12(S) + 0.37$ ; for No. 5 Oil,  $A = 1.2$ ; for No. 4,  $A = 0.84$ ; for No. 2 Oil,  $A = 0.24$ ; S = Sulfur Content weight percent. (Factor is derived: 56% of the PM, total factor).
6. For Number 6 Oil,  $A = 1.12(S) + 0.37$ ; for No. 5 Oil,  $A = 1.2$ ; for No. 4,  $A = 0.84$ ; for No. 2 Oil,  $A = 0.24$ ; S = Sulfur Content weight percent. (Factor is derived: 23% of the PM, total factor).
7. Where M = material moisture content (%). See AP-42 for details.
8. Where A = horizontal area ( $ft^2$ ), with blasting depth  $\leq 70$  ft. Not for vertical face of a bench. See AP-42 for details.
9. Where d = drop height (ft); M = material moisture content (%). See AP-42 for details.
10. Where M = material moisture content (%); s = material silt content (%). See AP-42 for details.
11. Where S = mean vehicle speed (mph). See AP-42 for details.

PM 2.5			
SCC	PROCESS NAME	Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Electric Generation</u></b>			
<b><u>External Combustion Boilers: Electric Generation - Bituminous/Subbituminous Coal - SIC 4911</u></b>			
		1, 2	
1-01-002-01	Pulverized Coal: Wet Bottom (Bituminous Coal)	1.48 A	Tons of Bituminous Coal Burned
		1, 2	
1-01-002-02	Pulverized Coal: Dry Bottom (Bituminous Coal)	0.60 A	Tons of Bituminous Coal Burned
		1, 2	
1-01-002-03	Cyclone Furnace (Bituminous Coal)	0.11 A	Tons of Bituminous Coal Burned
		2	
1-01-002-04	Spreader Stoker (Bituminous Coal)	4.60	Tons of Bituminous Coal Burned
		2	
1-01-002-05	Traveling Grate (Overfeed) Stoker (Bituminous Coal)	2.20	Tons of Bituminous Coal Burned
		1, 2	
1-01-002-12	Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)	0.60 A	Tons of Bituminous Coal Burned
<b><u>External Combustion Boilers: Electric Generation - Lignite - SIC 4911</u></b>			
		2, 3	
1-01-003-01	Pulverized Coal: Dry Bottom, Wall Fired	0.79 * [0.66 * (A)]	Tons of Lignite Burned
		2, 3	
1-01-003-02	Pulverized Coal: Dry Bottom, Tangential Fired	0.66 A	Tons of Lignite Burned
		2,3	
1-01-003-06	Spreader Stoker	0.56 A	Tons of Lignite Burned
<b><u>External Combustion Boilers: Electric Generation - Residual Oil - SIC 4911</u></b>			
		2, 4	
1-01-004-01	Grade 6 Oil: Normal Firing	4.3A	1000 Gallons of Residual Oil (No. 6) Burned
		2, 4	
1-01-004-04	Grade 6 Oil: Tangential Firing	4.3A	1000 Gallons of Residual Oil (No. 6) Burned
		2, 4	
1-01-004-05	Grade 5 Oil: Normal Firing	4.3A	1000 Gallons of Residual Oil (No. 5) Burned
		2, 4	
1-01-004-06	Grade 5 Oil: Tangential Firing	4.3A	1000 Gallons of Residual Oil (No. 5) Burned
<b><u>External Combustion Boilers: Electric Generation - Distillate Oil - SIC 4911</u></b>			
		2, 4	
1-01-005-04	Grade 4 Oil: Normal Firing	4.3A	1000 Gallons of Distillate Oil (No. 4) Burned
		2, 4	
1-01-005-05	Grade 4 Oil: Tangential Firing	4.3A	1000 Gallons of Distillate Oil (No. 4) Burned
<b><u>External Combustion Boilers: Electric Generation - Wood/Bark Waste - SIC 4911</u></b>			
		2	
1-01-009-01	Bark-fired Boiler	10.0	Tons of Bark Burned

		PM 2.5	
SCC	PROCESS NAME	Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Electric Generation</u></b>			
<b><u>External Combustion Boilers: Electric Generation - Wood/Bark Waste - SIC 4911</u></b>			
		2	
1-01-009-02	Wood/Bark Fired Boiler	5.470	Tons of Wood/Bark Burned
<b><u>External Combustion Boilers - Industrial</u></b>			
<b><u>External Combustion Boilers: Industrial - Bituminous/Subbituminous Coal - SIC 1000-3999</u></b>			
		1, 2	
1-02-002-01	Pulverized Coal: Wet Bottom	1.48 A	Tons of Bituminous Coal Burned
		1, 2	
1-02-002-02	Pulverized Coal: Dry Bottom	0.60 A	Tons of Bituminous Coal Burned
		1, 2	
1-02-002-03	Cyclone Furnace	0.11 A	Tons of Bituminous Coal Burned
		2	
1-02-002-04	Spreader Stoker	4.60	Tons of Bituminous Coal Burned
		2	
1-02-002-05	Overfeed Stoker	2.20	Tons of Bituminous Coal Burned
		2	
1-02-002-06	Underfeed Stoker	3.80	Tons of Bituminous Coal Burned
		1, 2	
1-02-002-12	Pulverized Coal: Dry Bottom (Tangential)	0.60 A	Tons of Bituminous Coal Burned
<b><u>External Combustion Boilers: Industrial - Residual Oil - SIC 1000-3999</u></b>			
		2, 5	
1-02-004-01	Grade 6 Oil	4.67A	1000 Gallons of Residual Oil (No. 6) Burned
		2, 5	
1-02-004-02	10-100 Million Btu/hr **	4.67A	1000 Gallons of Residual Oil Burned
		2, 5	
1-02-004-03	< 10 Million Btu/hr **	4.67A	1000 Gallons of Residual Oil Burned
		2, 5	
1-02-004-04	Grade 5 Oil	4.67A	1000 Gallons of Residual Oil (No. 5) Burned
<b><u>External Combustion Boilers: Industrial - Distillate Oil - SIC 1000-3999</u></b>			
		2	
1-02-005-01	Grades 1 and 2 Oil	0.25	1000 Gallons of Distillate Oil (No. 1 & 2) Burned
		2	
1-02-005-02	10-100 Million Btu/hr **	0.25	1000 Gallons of Distillate Oil Burned
		2	
1-02-005-03	< 10 Million Btu/hr **	0.25	1000 Gallons of Distillate Oil Burned
		2, 5	
1-02-005-04	Grade 4 Oil	4.67A	1000 Gallons of Distillate Oil (No. 4) Burned
<b><u>External Combustion Boilers: Industrial - Wood/Bark Waste - SIC 1000-3999</u></b>			
		2	
1-02-009-01	Bark-fired Boiler (> 50,000 Lb Steam)	10.0	Tons of Bark Burned

		PM 2.5	
SCC	PROCESS NAME	Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Industrial</u></b>			
<b><u>External Combustion Boilers: Industrial - Wood/Bark Waste - SIC 1000-3999</u></b>			
1-02-009-02	Wood/Bark-fired Boiler (> 50,000 Lb Steam)	<sup>2</sup> 5.470	Tons of Wood/Bark Burned
1-02-009-04	Bark-fired Boiler (< 50,000 Lb Steam)	<sup>2</sup> 10.0	Tons of Bark Burned
1-02-009-05	Wood/Bark-fired Boiler (< 50,000 Lb Steam)	<sup>2</sup> 5.470	Tons of Wood/Bark Burned
<b><u>External Combustion Boilers - Commercial/Institutional</u></b>			
<b><u>External Combustion Boilers: Commercial/Institutional - Bituminous/Subbituminous Coal - SIC 4000-4899, 4920-9999</u></b>			
1-03-002-03	Cyclone Furnace (Bituminous Coal)	<sup>1, 2</sup> 0.11 A	Tons of Bituminous Coal Burned
1-03-002-05	Pulverized Coal: Wet Bottom (Bituminous Coal)	<sup>1, 2</sup> 1.48 A	Tons of Bituminous Coal Burned
1-03-002-06	Pulverized Coal: Dry Bottom (Bituminous Coal)	<sup>1, 2</sup> 0.60 A	Tons of Bituminous Coal Burned
1-03-002-07	Overfeed Stoker (Bituminous Coal)	<sup>2</sup> 2.20	Tons of Bituminous Coal Burned
1-03-002-08	Underfeed Stoker (Bituminous Coal)	<sup>2</sup> 3.80	Tons of Bituminous Coal Burned
1-03-002-09	Spreader Stoker (Bituminous Coal)	<sup>2</sup> 4.60	Tons of Bituminous Coal Burned
1-03-002-16	Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)	<sup>1, 2</sup> 0.60 A	Tons of Bituminous Coal Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Residual Oil - SIC 4000-4899, 4920-9999</u></b>			
1-03-004-01	Grade 6 Oil	<sup>2, 6</sup> 1.92A	1000 Gallons of Residual Oil (No. 6) Burned
1-03-004-02	10-100 Million Btu/hr **	<sup>2, 6</sup> 1.92A	1000 Gallons of Residual Oil Burned
1-03-004-03	< 10 Million Btu/hr **	<sup>2, 6</sup> 1.92A	1000 Gallons of Residual Oil Burned
1-03-004-04	Grade 5 Oil	<sup>2, 6</sup> 1.92A	1000 Gallons of Residual Oil (No. 5) Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Distillate Oil - SIC 4000-4899, 4920-9999</u></b>			
1-03-005-01	Grades 1 and 2 Oil	<sup>2</sup> 0.83	1000 Gallons of Distillate Oil (No. 1 & 2) Burned
1-03-005-02	10-100 Million Btu/hr **	<sup>2</sup> 0.83	1000 Gallons of Distillate Oil Burned
1-03-005-03	< 10 Million Btu/hr **	<sup>2</sup> 0.83	1000 Gallons of Distillate Oil Burned



		PM 2.5	
SCC	PROCESS NAME	Lbs/Unit	UNITS
<b><u>External Combustion Boilers - Commercial/Institutional</u></b>			
<b><u>External Combustion Boilers: Commercial/Institutional - Distillate Oil - SIC 4000-4899, 4920-9999</u></b>			
1-03-005-04	Grade 4 Oil	<sup>2</sup> 0.83	1000 Gallons of Distillate Oil (No. 4) Burned
<b><u>External Combustion Boilers: Commercial/Institutional - Wood/Bark Waste - SIC 4000-4899, 4920-9999</u></b>			
1-03-009-01	Bark-fired Boiler	<sup>2</sup> 10.0	Tons of Bark Burned
1-03-009-02	Wood/Bark-fired Boiler	<sup>2</sup> 5.470	Tons of Wood/Bark Burned
<b><u>Industrial Processes - Food and Agriculture</u></b>			
<b><u>Industrial Processes: Food and Agriculture - Grain Millings - SIC 2041</u></b>			
3-02-007-09	Barley Malting: Gas-fired Malt Kiln	0.075	Tons of Grain Processed
<b><u>Industrial Processes: Food and Agriculture - Beer Production - SIC 2082</u></b>			
3-02-009-30	Brewers Grain Dryer: Natural Gas-fired	0.091	Tons of Dried Grain Produced
3-02-009-32	Brewers Grain Dryer: Steam-heated	0.091	Tons of Dried Grain Produced
<b><u>Industrial Processes - Primary Metal Production</u></b>			
<b><u>Industrial Processes: Primary Metal Production - Aluminum Ore (Electro-reduction) - SIC 3334</u></b>			
3-03-001-02	Horizontal Stud Soderberg Cell	<sup>2</sup> 39.20	Tons of Molten Aluminum Produced
3-03-001-08	Prebake: Fugitive Emissions	<sup>2</sup> 1.40	Tons of Molten Aluminum Produced
3-03-001-09	H.S.S.: Fugitive Emissions	<sup>2</sup> 1.70	Tons of Molten Aluminum Produced
<b><u>Industrial Processes - Mineral Products</u></b>			
<b><u>Industrial Processes: Mineral Products - Brick Manufacture - SIC 3251</u></b>			
3-05-003-10	Curing and Firing: Sawdust Fired Tunnel Kilns	0.16	Tons of Brick Produced
3-05-003-13	Curing and Firing: Coal-fired Tunnel Kilns	0.28	Tons of Brick Produced
<b><u>Industrial Processes: Mineral Products - Coal Mining, Cleaning, and Material Handling (See 305310) - SIC 1111, 1221, 1222</u></b>			
3-05-010-15	Loading	<sup>2, 7</sup> $0.019 * \{1.16 / (M)^{1.2}\}$	Tons of Coal Loaded
3-05-010-35	Blasting: Coal Overburden	<sup>2, 8</sup> $0.03 * \{0.000014(A)^{1.5}\}$	Each of Blast Occurred
3-05-010-36	Dragline: Overburden Removal	<sup>2, 9</sup> $\{0.017 * 0.0021 * (d)^{0.7}\} / (M)^{0.3}$	Cubic Yards of Overburden Removed

		PM 2.5	
SCC	PROCESS NAME	Lbs/Unit	UNITS
<b><u>Industrial Processes - Mineral Products</u></b>			
<b><u>Industrial Processes: Mineral Products - Coal Mining, Cleaning, and Material Handling (See 305310) - SIC 1111, 1221, 1222</u></b>			
3-05-010-45	Bulldozing: Overburden	<sup>2, 10</sup> $\{0.105 * 5.7 * (s)^{1.2}\} / (M)^{1.3}$	Hour of Bulldozer Operated
3-05-010-46	Bulldozing: Coal	<sup>2, 10</sup> $\{0.022 * 78.4 * (s)^{1.2}\} / (M)^{1.3}$	Hour of Bulldozer Operated
3-05-010-47	Grading	<sup>2, 11</sup> $\{0.031 * 0.040 * (S)^{2.5}\}$	Miles of Grader Travelled
<b><u>Industrial Processes: Mineral Products - Lime Manufacture - SIC 3274</u></b>			
3-05-016-18	Calcining: Coal-fired Rotary Kiln	4.9	Tons of Lime Manufactured
3-05-016-20	Calcining: Coal- and Gas-fired Rotary Kiln	1.1	Tons of Lime Manufactured
<b><u>Industrial Processes - Fabricated Metal Products</u></b>			
<b><u>Industrial Processes: Fabricated Metal Products - Abrasive Blasting of Metal Parts - SIC 3400</u></b>			
3-09-002-02	Sand Abrasive	<sup>2</sup> 1.30	1000 Pounds of Abrasive Used
<b><u>Waste Disposal - Solid Waste Disposal - Government</u></b>			
<b><u>Waste Disposal: Solid Waste Disposal - Government - Landfill Dump - SIC 4953</u></b>			
5-01-004-10	Waste Gas Destruction: Waste Gas Flares	<sup>2</sup> 17.0	Million Dry Standard Cubic Feet of Methane Generated
5-01-004-20	Waste Gas Recovery: Gas Turbines	<sup>2</sup> 22.0	Million Dry Standard Cubic Feet of Methane Generated
5-01-004-21	Waste Gas Recovery: Internal Combustion Device	<sup>2</sup> 48	Million Dry Standard Cubic Feet of Methane Generated
5-01-004-23	Waste Gas Recovery: Boiler	<sup>2</sup> 8.20	Million Dry Standard Cubic Feet of Methane Generated
<b><u>Waste Disposal - Solid Waste Disposal - Industrial</u></b>			
<b><u>Waste Disposal: Solid Waste Disposal - Industrial - Landfill Dump - SIC 4900</u></b>			
5-03-006-01	Waste Gas Flares	<sup>2</sup> 17.0	Million Dry Standard Cubic Feet of Methane Generated

# **APPENDIX C**

## **SCCs WITH MULTIPLE EMISSION FACTORS**

This page is intentionally left blank.

## SCCs With Multiple Emission Factors

### ***1-01-002-02 External Combustion Boilers - Electric Generation - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Bituminous Coal)***

#### **Nitrogen oxides (NO<sub>x</sub>)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
12	Lb per Tons of Bituminous Coal Burned	Factor is for Post-NSPS boilers.
22	Lb per Tons of Bituminous Coal Burned	Factor is for Pre-NSPS boilers.

### ***1-01-002-12 External Combustion Boilers - Electric Generation - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)***

#### **Nitrogen oxides (NO<sub>x</sub>)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
10	Lb per Tons of Bituminous Coal Burned	Factor is for Post-NSPS boilers.
15	Lb per Tons of Bituminous Coal Burned	Factor is for Pre-NSPS boilers.

### ***1-01-002-22 External Combustion Boilers - Electric Generation - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Subbituminous Coal)***

#### **Nitrogen oxides (NO<sub>x</sub>)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
12	Lb per Tons of Subbituminous Coal Burned	Factor is for Pre-NSPS boilers.
7.4	Lb per Tons of Subbituminous Coal Burned	Factor is for Post-NSPS boilers.

### ***1-01-002-26 External Combustion Boilers - Electric Generation - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)***

#### **Nitrogen oxides (NO<sub>x</sub>)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
7.2	Lb per Tons of Subbituminous Coal Burned	Factor is for Post-NSPS boilers.
8.4	Lb per Tons of Subbituminous Coal Burned	Factor is for Pre-NSPS boilers.

## SCCs With Multiple Emission Factors

### ***1-01-003-01 External Combustion Boilers - Electric Generation - Lignite - Pulverized Coal: Dry Bottom, Wall Fired***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
13	Lb per Tons of Lignite Burned	Pre-NSPS
6.3	Lb per Tons of Lignite Burned	NSPS

### ***1-01-006-01 External Combustion Boilers - Electric Generation - Natural Gas - Boilers > 100 Million Btu/hr except Tangential***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
190	Lb per Million Cubic Feet of Natural Gas Burned	Factor is for a Post-NSPS boiler.
280	Lb per Million Cubic Feet of Natural Gas Burned	Factor is for a Pre-NSPS boiler.

### ***1-02-002-02 External Combustion Boilers - Industrial - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
12	Lb per Tons of Bituminous Coal Burned	Factor is for Post-NSPS boilers.
22	Lb per Tons of Bituminous Coal Burned	Factor is for Pre-NSPS boilers.

### ***1-02-002-12 External Combustion Boilers - Industrial - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Tangential)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
10	Lb per Tons of Bituminous Coal Burned	Factor is for Post-NSPS boilers.
15	Lb per Tons of Bituminous Coal Burned	Factor is for Pre-NSPS boilers.

## ***SCCs With Multiple Emission Factors***

### ***1-02-002-22 External Combustion Boilers - Industrial - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Subbituminous Coal)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
12	Lb per Tons of Subbituminous Coal Burned	Factor is for Pre-NSPS boilers.
7.4	Lb per Tons of Subbituminous Coal Burned	Factor is for Post-NSPS boilers.

### ***1-02-002-26 External Combustion Boilers - Industrial - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
7.2	Lb per Tons of Subbituminous Coal Burned	Factor is for Post-NSPS boilers.
8.4	Lb per Tons of Subbituminous Coal Burned	Factor is for Pre-NSPS boilers.

### ***1-02-006-01 External Combustion Boilers - Industrial - Natural Gas - > 100 Million Btu/hr***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
190	Lb per Million Cubic Feet of Natural Gas Burned	Factor is for a Post-NSPS boiler.
280	Lb per Million Cubic Feet of Natural Gas Burned	Factor is for a Pre-NSPS boiler.

### ***1-03-002-06 External Combustion Boilers - Commercial/Institutional - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Bituminous Coal)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
12	Lb per Tons of Bituminous Coal Burned	Factor is for Post-NSPS boilers.
22	Lb per Tons of Bituminous Coal Burned	Factor is for Pre-NSPS boilers.

### ***1-03-002-16 External Combustion Boilers - Commercial/Institutional - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Tangential) (Bituminous Coal)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
10	Lb per Tons of Bituminous Coal Burned	Factor is for Post-NSPS boilers.
15	Lb per Tons of Bituminous Coal Burned	Factor is for Pre-NSPS boilers.

## SCCs With Multiple Emission Factors

### ***1-03-002-22 External Combustion Boilers - Commercial/Institutional - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom (Subbituminous Coal)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
12	Lb per Tons of Subbituminous Coal Burned	Factor is for Pre-NSPS boilers.
7.4	Lb per Tons of Subbituminous Coal Burned	Factor is for Post-NSPS boilers.

### ***1-03-002-26 External Combustion Boilers - Commercial/Institutional - Bituminous/Subbituminous Coal - Pulverized Coal: Dry Bottom Tangential (Subbituminous Coal)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
7.2	Lb per Tons of Subbituminous Coal Burned	Factor is for Post-NSPS boilers.
8.4	Lb per Tons of Subbituminous Coal Burned	Factor is for Pre-NSPS boilers.

### ***1-03-006-01 External Combustion Boilers - Commercial/Institutional - Natural Gas - > 100 Million Btu/hr***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
190	Lb per Million Cubic Feet of Natural Gas Burned	Factor is for a Post-NSPS boiler.
280	Lb per Million Cubic Feet of Natural Gas Burned	Factor is for a Pre-NSPS boiler.

### ***3-01-013-02 Industrial Processes - Chemical Manufacturing - Nitric Acid - Absorber Tail Gas (Post-1970 Facilities)***

#### **Nitrogen oxides (NOx)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
10	Lb per Tons of Pure Acid Produced	High strength acid plant
57	Lb per Tons of Pure Acid Produced	Weak acid plant



**3-01-018-17 Industrial Processes - Chemical Manufacturing - Plastics Production - General****Volatile organic compounds (VOC)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.1	Lb per Tons of Product Produced	Continuous Process Polystyrene. Styrene recovery unit condenser vent. Emission factor is for plants using vacuum pumps.
0.1	Lb per Tons of Product Produced	Continuous Process Polystyrene. Devolatilizer condenser vent. Emission factor is for plants using vacuum pumps.
0.106	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Holding tank vents.
10.74	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Entire Plant.
1.2 - 5	Lb per Tons of Product Produced	Batch Process Polystyrene. Entire plant.
0.014	Lb per Tons of Product Produced	Continuous Process Polystyrene. Other storage, high impact polystyrene.
0.16	Lb per Tons of Product Produced	Continuous Process Polystyrene. Styrene monomer storage.
0.016	Lb per Tons of Product Produced	Continuous Process Polystyrene. Dissolvers.
0.016	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Product improvement vents.
0.016	Lb per Tons of Product Produced	Continuous Process Polystyrene. Other storage, general purpose polystyrene.
0.18	Lb per Tons of Product Produced	Batch Process Polystyrene. Monomer storage and feed dissolver tanks. Emission factor is based on fixed roof design.
0.02	Lb per Tons of Product Produced	Continuous Process Polystyrene. Extruder quench vent. For plants using vacuum pumps.

## SCCs With Multiple Emission Factors

### Volatile organic compounds (VOC)

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.002	Lb per Tons of Product Produced	Continuous Process Polystyrene. Ethylbenzene storage.
0.002	Lb per Tons of Product Produced	Continuous Process Polystyrene. Additives storage, high impact polystyrene.
2.18	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Reactor vents.
0.24 - 2.7	Lb per Tons of Product Produced	Batch Process Polystyrene. Reactor vent drum vent. The higher factor is more likely during the manufacture of lower molecular weight products. Factor for any given process train will change with product grade.
0.26	Lb per Tons of Product Produced	Continuous Process Polystyrene. Styrene recovery unit condenser vent. Emission factor is for plants using steam jets.
0.26	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Mix tank vents.
2.6	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Storage vents and conveying loses.
0.3	Lb per Tons of Product Produced	Continuous Process Polystyrene. Extruder quench vent. For plants using steam jets.
0.3 - 0.6	Lb per Tons of Product Produced	Batch Process Polystyrene. Extruder quench vent. The higher factor is more likely during the manufacture of lower molecular weight products. Factor for any given process train will change with product grade.
0.004	Lb per Tons of Product Produced	Continuous Process Polystyrene. Additives storage, general purpose polystyrene.
0.004	Lb per Tons of Product Produced	Batch Process Polystyrene. Devolatilizer condensate tanks. Emission factor is based on fixed roof design.
0.42	Lb per Tons of Product Produced	Continuous Process Polystyrene. Entire plant. Emission factor is for plants using vacuum pumps.

### ***SCCs With Multiple Emission Factors***

#### **Volatile organic compounds (VOC)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.046	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Wash tank vents.
0.048 - 0.6	Lb per Tons of Product Produced	Continuous Process Polystyrene. Vacuum system. Lower value based on facility using refrigerated condensers as well as conventional cooling water exchangers; vacuum pumps in use. Higher value for facility using vacuum pumps.
0.5 - 1.5	Lb per Tons of Product Produced	Batch Process Polystyrene. Devolatilizer condenser vent. The higher factor is more likely during the manufacture of lower molecular weight products. Factor for any given process train will change with product grade.
5.54	Lb per Tons of Product Produced	In-situ Process Expandable Polystyrene. Dryer vents.
5.92	Lb per Tons of Product Produced	Continuous Process Polystyrene. Devolatilizer condenser vent. Emission factor is for plants using steam jets.
6.68	Lb per Tons of Product Produced	Continuous Process Polystyrene. Entire plant. Emission factor is for plants using steam jets.

### ***3-01-018-99 Industrial Processes - Chemical Manufacturing - Plastics Production - Others Not Specified***

#### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.33	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT). Storage of DMT.
0.34	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT). Total Plant.

### ***3-01-018-99 Industrial Processes - Chemical Manufacturing - Plastics Production - Others Not Specified***

#### **Volatile organic compounds (VOC)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.01	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT) or from terephthalic acid (TPA). Prepolymerizer reactor vacuum system.

## SCCs With Multiple Emission Factors

### Volatile organic compounds (VOC)

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.001	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT) or from terephthalic acid (TPA). Ethylene glycol recovery vacuum system.
1.46 - 7.8	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT). Entire plant. Lower value of range reflects emissions where spray condensers are used off the prepolymerizers and the polymerization reactors. Upper value reflects emissions where condensers are not used.
0.018	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT) or from terephthalic acid (TPA). Prepolymerizer vacuum system.
0.0018	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT) or from terephthalic acid (TPA). Ethylene glycol process tanks.
0.2	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT) or from terephthalic acid (TPA). Raw material storage.
0.02	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT). Ethylene glycol recovery condenser.
0.4 - 6.8	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT). Cooling Tower. Lower end of range reflects emissions where spray condensers are used off the prepolymerizers and the polymerization reactors; upper value reflects emissions where condensers were not used.
0.04	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT). Sludge storage and handling.
0.6	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from dimethyl terephthalate (DMT). Methanol recovery system.
0.72 - 7.2	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from terephthalic acid (TPA). Entire process. Lower value reflects emissions where spray condensers are used off all prepolymerizers and polymerizations reactors. Upper value reflects emissions where spray condensers are not used.
0.08	Lb per Tons of Product Produced	Poly(ethylene terephthalate) (PET) production from terephthalic acid (TPA). Esterification.

### ***SCCs With Multiple Emission Factors***

---

#### ***3-01-024-02 Industrial Processes - Chemical Manufacturing - Synthetic Organic Fiber Manufacturing - Polyesters: Staple***

##### **Volatile organic compounds (VOC)**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
0.1	Lb per Tons of Fiber Produced	Polyester, melt spun, yarn. Emissions are in aerosol form.
1.2	Lb per Tons of Fiber Produced	Polyester, melt spun, staple. Emissions are in aerosol form.

#### ***3-01-024-10 Industrial Processes - Chemical Manufacturing - Synthetic Organic Fiber Manufacturing - Acrylic: Uncontrolled***

##### **Volatile organic compounds (VOC)**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
13.5	Lb per Tons of Product Produced	Acrylic and modacrylic wet spun After solvent recovery from the spinning, washing, and drawing up stages.
250	Lb per Tons of Product Produced	Modacrylic, dry spun
41.4	Lb per Tons of Product Produced	Acrylic, inorganic wet spun, homopolymer
5.5	Lb per Tons of Product Produced	Acrylic, inorganic wet spun, copolymer
80	Lb per Tons of Product Produced	Acrylic, dry spun

#### ***3-01-024-99 Industrial Processes - Chemical Manufacturing - Synthetic Organic Fiber Manufacturing - Other Not Classified***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
1	Lb per Tons of Material Produced	Nylon 66, melt spun For plants with spinning equipment cleaning operations.
0.02	Lb per Tons of Material Produced	Nylon 6, melt spun, staple
0.02	Lb per Tons of Material Produced	Polyolefin, melt spun

### ***SCCs With Multiple Emission Factors***

#### ***3-01-024-99 Industrial Processes - Chemical Manufacturing - Synthetic Organic Fiber Manufacturing - Other Not Classified***

##### **Volatile organic compounds (VOC)**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
10	Lb per Tons of Material Produced	Polyolefin, melt spun
224	Lb per Tons of Material Produced	Cellulose acetate filter tow
300	Lb per Tons of Material Produced	Vinyon, dry spun After recovery from spin cells.
398	Lb per Tons of Material Produced	Cellulose acetate and triacetate filament yarn
4.26	Lb per Tons of Material Produced	Nylon 66, melt spun
7.86	Lb per Tons of Material Produced	Nylon 6, melt spun, staple
8.46	Lb per Tons of Material Produced	Spandex, dry spun After recovery from spin cells.
0.9	Lb per Tons of Material Produced	Nylon 6, melt spun, yarn After recovery of emissions from the spin cells.

#### ***3-01-900-99 Industrial Processes - Chemical Manufacturing - Fuel Fired Equipment - Specify in Comments Field***

##### **Carbon monoxide**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
245	Lb per Tons of Carbon Black Produced	Carbon black manufacture, oil furnace process.
0.37	Lb per Million Btus of Heat Input	Industrial flares. Emission factor based on tests using crude propylene containing 80% propylene and 20% propane.

#### ***3-01-900-99 Industrial Processes - Chemical Manufacturing - Fuel Fired Equipment - Specify in Comments Field***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
0 - 27.4	Lb per Million Btus of Heat Input	Industrial flares. Emission factor based on tests using crude propylene containing 80% propylene and 20% propane. Measured as "soot".
2.7	Lb per Tons of Carbon Black Produced	Carbon black manufacture, oil furnace process.

---

### ***SCCs With Multiple Emission Factors***

---

#### ***3-02-007-11 Industrial Processes - Food and Agriculture - Grain Millings - Durum Milling: Grain Receiving***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.18	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.032	Lb per Tons of Grain Received	Grain receiving - Railcar
0.035	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

#### ***3-02-007-11 Industrial Processes - Food and Agriculture - Grain Millings - Durum Milling: Grain Receiving***

##### **PM10, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.059	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.0078	Lb per Tons of Grain Received	Grain receiving - Railcar
0.0078	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

#### ***3-02-007-21 Industrial Processes - Food and Agriculture - Grain Millings - Rye: Grain Receiving***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.18	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.032	Lb per Tons of Grain Received	Grain receiving - Railcar
0.035	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

#### ***3-02-007-21 Industrial Processes - Food and Agriculture - Grain Millings - Rye: Grain Receiving***

##### **PM10, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.059	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.0078	Lb per Tons of Grain Received	Grain receiving - Railcar
0.0078	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

### ***SCCs With Multiple Emission Factors***

---

#### ***3-02-007-31 Industrial Processes - Food and Agriculture - Grain Millings - Wheat: Grain Receiving***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.18	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.032	Lb per Tons of Grain Received	Grain receiving - Railcar
0.035	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

#### ***3-02-007-31 Industrial Processes - Food and Agriculture - Grain Millings - Wheat: Grain Receiving***

##### **PM10, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.059	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.0078	Lb per Tons of Grain Received	Grain receiving - Railcar
0.0078	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

#### ***3-02-007-41 Industrial Processes - Food and Agriculture - Grain Millings - Dry Corn Milling: Grain Receiving***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.18	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.032	Lb per Tons of Grain Received	Grain receiving - Railcar
0.035	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

#### ***3-02-007-41 Industrial Processes - Food and Agriculture - Grain Millings - Dry Corn Milling: Grain Receiving***

##### **PM10, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.059	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.0078	Lb per Tons of Grain Received	Grain receiving - Hopper truck
0.0078	Lb per Tons of Grain Received	Grain receiving - Railcar

---



---

### *SCCs With Multiple Emission Factors*

---

#### **3-02-007-42 Industrial Processes - Food and Agriculture - Grain Millings - Dry Corn Milling: Grain Drying**

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.22	Lb per Tons of Grain Processed	Column dryer
3	Lb per Tons of Grain Processed	Rack dryer

---

#### **3-02-007-42 Industrial Processes - Food and Agriculture - Grain Millings - Dry Corn Milling: Grain Drying**

##### **PM10, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.055	Lb per Tons of Grain Processed	Column dryer
0.75	Lb per Tons of Grain Processed	Rack dryer

---

#### **3-02-007-60 Industrial Processes - Food and Agriculture - Grain Millings - Oat: General**

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.18	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.032	Lb per Tons of Grain Received	Grain receiving - Railcar
0.035	Lb per Tons of Grain Received	Grain receiving - Hopper truck

---

#### **3-02-007-60 Industrial Processes - Food and Agriculture - Grain Millings - Oat: General**

##### **PM10, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.059	Lb per Tons of Grain Received	Grain receiving - Straight truck
0.0078	Lb per Tons of Grain Received	Grain receiving - Hopper truck
0.0078	Lb per Tons of Grain Received	Grain receiving - Railcar

### ***SCCs With Multiple Emission Factors***

---

#### ***3-03-001-01 Industrial Processes - Primary Metal Production - Aluminum Ore (Electro-reduction) - Prebaked Reduction Cell***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
89	Lb per Tons of Molten Aluminum Produced	Represents emissions to collector. Includes particulate fluorides, but not condensable organic particulate.
94	Lb per Tons of Molten Aluminum Produced	Includes particulate fluorides, but not condensable organic particulate.

#### ***3-03-001-02 Industrial Processes - Primary Metal Production - Aluminum Ore (Electro-reduction) - Horizontal Stud Soderberg Cell***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
88	Lb per Tons of Molten Aluminum Produced	Represents emissions to collector. Includes particulate fluorides, but not condensable organic particulate.
98	Lb per Tons of Molten Aluminum Produced	Includes particulate fluorides, but not condensable organic particulate.

#### ***3-03-001-03 Industrial Processes - Primary Metal Production - Aluminum Ore (Electro-reduction) - Vertical Stud Soderberg Cell***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
66	Lb per Tons of Molten Aluminum Produced	Represents emissions to collector. Includes particulate fluorides, but not condensable organic particulate.
78	Lb per Tons of Molten Aluminum Produced	Includes particulate fluorides, but not condensable organic particulate.

#### ***3-03-003-04 Industrial Processes - Primary Metal Production - By-product Coke Manufacturing - Quenching***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
1.13	Lb per Tons of Coke Produced	Quenching was done using clean water.
1.3	Lb per Tons of Coke Produced	The emission factor was derived during quenching with baffles using dirty water.
5.24	Lb per Tons of Coke Produced	Quenching was done using dirty water.
0.54	Lb per Tons of Coke Produced	The emission factor was derived during quenching with baffles using clean water.

### ***SCCs With Multiple Emission Factors***

---

#### ***3-03-003-04 Industrial Processes - Primary Metal Production - By-product Coke Manufacturing - Quenching***

##### **PM<sub>10</sub>, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
1.2	Lb per Tons of Material Processed	Dirty water.
0.34	Lb per Tons of Material Processed	Clean water.

---

#### ***3-03-003-17 Industrial Processes - Primary Metal Production - By-product Coke Manufacturing - Combustion Stack: Coke Oven Gas (COG)***

##### **Sulfur oxides (SO<sub>x</sub>)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.28	Lb per Tons of Coke Produced	Desulfurized COG combustion stack.
4	Lb per Tons of Coke Produced	Raw COG combustion stack.

---

#### ***3-03-006-01 Industrial Processes - Primary Metal Production - Ferroalloy, Open Furnace - 50% FeSi: Electric Smelting Furnace***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
70	Lb per Tons of Material Produced	Open furnace. Includes fumes captured by tapping hood (efficiency estimated at near 100%).
92	Lb per Tons of Material Produced	Covered furnace.

---

#### ***3-03-006-02 Industrial Processes - Primary Metal Production - Ferroalloy, Open Furnace - 75% FeSi: Electric Smelting Furnace***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
206	Lb per Tons of Material Produced	Covered furnace. Does not include emissions from tapping or mix seal leaks.
316	Lb per Tons of Material Produced	Open furnace.

---

### ***SCCs With Multiple Emission Factors***

---

#### ***3-03-007-01 Industrial Processes - Primary Metal Production - Semi-covered Furnace - Ferromanganese: Electric Arc Furnace***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
12	Lb per Tons of Material Produced	Covered furnace. Includes tapping fumes and mix seal leak fugitive emissions. Fugitive emissions measured at 33% of total uncontrollable emissions.
74	Lb per Tons of Material Produced	Sealed furnace. Assumes tapping not included in emission factor.

---

#### ***3-03-023-51 Industrial Processes - Primary Metal Production - Taconite Iron Ore Processing - Induration: Grate/Kiln, Gas-fired, Acid Pellets***

##### **Volatile organic compounds (VOC)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.0037	Lb per Tons of Pellets Produced	Based on Method 25A data.
0.075	Lb per Tons of Pellets Produced	Based on Method 25 data.

---

#### ***3-03-023-52 Industrial Processes - Primary Metal Production - Taconite Iron Ore Processing - Induration: Grate/Kiln, Gas-fired, Flux Pellets***

##### **Volatile organic compounds (VOC)**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
0.0037	Lb per Tons of Pellets Produced	Based on Method 25A data.
0.075	Lb per Tons of Pellets Produced	Based on Method 25 data.

---

#### ***3-03-024-04 Industrial Processes - Primary Metal Production - Metal Mining (General Processes) - Material Handling: Low Moisture Ore***

##### **PM, filterable**

Emission Factor	Emission Factor Units	Reason for SCC-Pollutant Duplicate
1.1	Lb per Tons of Ore Processed	Bauxite/alumina. Based on weight of material transferred.
0.12	Lb per Tons of Ore Processed	All minerals except bauxite. Based on weight of material transferred.

---

### ***SCCs With Multiple Emission Factors***

---

#### ***3-04-003-01 Industrial Processes - Secondary Metal Production - Grey Iron Foundries - Cupola***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
11.55	Lb per Tons of Metal Charged	Confidential Report No. ERC-116
13.8	Lb per Tons of Metal Charged	EPA. September 1985. In: Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources, Fourth Edition with Supplements A, B, and C, AP-42.

#### ***3-05-003-02 Industrial Processes - Mineral Products - Brick Manufacture - Raw Material Grinding & Screening***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
0.025	Lb per Tons of Raw Material Processed	Processing wet material.
8.5	Lb per Tons of Raw Material Processed	Processing dry material.

#### ***3-05-003-02 Industrial Processes - Mineral Products - Brick Manufacture - Raw Material Grinding & Screening***

##### **PM10, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
0.0023	Lb per Tons of Raw Material Processed	Processing wet material.
0.53	Lb per Tons of Raw Material Processed	Processing dry material.

### ***SCCs With Multiple Emission Factors***

---

#### ***3-05-012-04 Industrial Processes - Mineral Products - Fiberglass Manufacturing - Forming: Rotary Spun (Wool-type Fiber)***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
36.21	Lb per Tons of Fiber Produced	R-19.
39.21	Lb per Tons of Fiber Produced	R-11.
55.42	Lb per Tons of Fiber Produced	Ductboard.
9.81	Lb per Tons of Fiber Produced	Heavy density.

---

#### ***3-07-001-05 Industrial Processes - Pulp and Paper and Wood Products - Sulfate (Kraft) Pulping - Smelt Dissolving Tank***

##### **Carbon monoxide**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
1.91	Lb per Tons of Black Liquor Solids Burned	Emission Factor was for a unit with an Electrostatic Precipitator control device. However, an Electrostatic Precipitator does not control carbon monoxide
0.00641	Lb per Tons of Black Liquor Solids Burned	Emission Factor was for a unit with a Wet Scrubber control device. However, a Wet Scrubber does not control carbon monoxide

---

#### ***3-09-002-02 Industrial Processes - Fabricated Metal Products - Abrasive Blasting of Metal Parts - Sand Abrasive***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
27	Lb per 1000 Pounds of Abrasive Used	5 mph wind speed.
55	Lb per 1000 Pounds of Abrasive Used	10 mph wind speed.
91	Lb per 1000 Pounds of Abrasive Used	15 mph wind speed.

### ***SCCs With Multiple Emission Factors***

---

#### ***5-01-005-08 Waste Disposal - Solid Waste Disposal - Government - Other Incineration - Conical Design (Tee Pee) Wood Refuse***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
1	Lb per Tons of Wood Refuse Burned	Satisfactory operation: properly maintained burner with adjustable underfire air supply and adjustable, tangential overfire air inlets, approximately 500% excess air and 700 degrees F exit gas temperature. Moisture content as fired is approximately 50% for wood waste.
20	Lb per Tons of Wood Refuse Burned	Very unsatisfactory operation: improperly maintained burner with radial overfire air supply near bottom of shell and many gaping holes in shell, approximately 1500% excess air and 400 degrees F exit gas temperature. Moisture content as fired is approximately 50% for wood waste.
7	Lb per Tons of Wood Refuse Burned	Unsatisfactory operation: properly maintained burner with radial overfire air supply near bottom of shell, approximately 1200% excess air and 400 degrees F exit gas temperature. Moisture content as fired is approximately 50% for wood waste.

---

#### ***5-03-002-03 Waste Disposal - Solid Waste Disposal - Industrial - Open Burning - Auto Body Components***

##### **Carbon monoxide**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
125	Lb per Tons of Material Burned	From AP-42 Section 2.5 Open Burning
2.5	Lb per Each of Vehicle Burned	From AP-42 Section 2.6 Automobile Body Incineration.

---

#### ***5-03-002-03 Waste Disposal - Solid Waste Disposal - Industrial - Open Burning - Auto Body Components***

##### **Lead**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
0.0002	Lb per Tons of Material Burned	Shredded automobile tires.
0.00067	Lb per Tons of Material Burned	Chunk automobile tires.

### ***SCCs With Multiple Emission Factors***

---

#### ***5-03-002-03 Waste Disposal - Solid Waste Disposal - Industrial - Open Burning - Auto Body Components***

##### **Nitrogen oxides (NOx)**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
0.1	Lb per Each of Vehicle Burned	From AP-42 Section 2.6 Automobile Body Incineration
4	Lb per Tons of Material Burned	From AP-42 Section 2.5 Open Burning

#### ***5-03-002-03 Waste Disposal - Solid Waste Disposal - Industrial - Open Burning - Auto Body Components***

##### **PM, filterable**

<b>Emission Factor</b>	<b>Emission Factor Units</b>	<b>Reason for SCC-Pollutant Duplicate</b>
100	Lb per Tons of Material Burned	From AP-42 Section 2.5 Open Burning
2	Lb per Each of Vehicle Burned	From AP-42 Section 2.6 Automobile Body Incineration



# **APPENDIX D**

## **SCCs WITH MULTIPLE SIC LINKINGS**

This page is intentionally left blank.

The following pages list six-digit SCCs that link to multiple SIC Codes; these could not be listed in Appendix A due to space limitations.

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
3-05-041	<i>Industrial Processes: Mineral Products - Clay processing: Kaolin</i>	
	1450	Clay, Ceramic, & Refractory Minerals
	1455	Kaolin And Ball Clay
	1459	Clay And Related Minerals, Nec
	3200	Stone, Clay, And Glass Products
	3250	Structural Clay Products
	3251	Brick And Structural Clay Tile
	3253	Ceramic Wall And Floor Tile
	3255	Clay Refractories
	3259	Structural Clay Products, Nec
	3260	Pottery And Related Products
	3261	Vitreous Plumbing Fixtures
	3262	Vitreous China Table & Kitchenware
	3263	Semivitreous Table & Kitchenware
	3264	Porcelain Electrical Supplies
	3269	Pottery Products, Nec
3-05-042	<i>Industrial Processes: Mineral Products - Clay processing: Ball clay</i>	
	1450	Clay, Ceramic, & Refractory Minerals
	1455	Kaolin And Ball Clay
	1459	Clay And Related Minerals, Nec
	3200	Stone, Clay, And Glass Products
	3250	Structural Clay Products
	3251	Brick And Structural Clay Tile
	3253	Ceramic Wall And Floor Tile
	3255	Clay Refractories
	3259	Structural Clay Products, Nec
	3260	Pottery And Related Products
	3261	Vitreous Plumbing Fixtures
	3262	Vitreous China Table & Kitchenware
	3263	Semivitreous Table & Kitchenware
	3264	Porcelain Electrical Supplies
	3269	Pottery Products, Nec
3-05-043	<i>Industrial Processes: Mineral Products - Clay processing: Fire clay</i>	
	1450	Clay, Ceramic, & Refractory Minerals
	1459	Clay And Related Minerals, Nec
	3200	Stone, Clay, And Glass Products
	3250	Structural Clay Products
	3251	Brick And Structural Clay Tile
	3253	Ceramic Wall And Floor Tile
	3255	Clay Refractories
	3259	Structural Clay Products, Nec
	3260	Pottery And Related Products
	3261	Vitreous Plumbing Fixtures
	3262	Vitreous China Table & Kitchenware
	3263	Semivitreous Table & Kitchenware
	3264	Porcelain Electrical Supplies
	3269	Pottery Products, Nec
3-05-044	<i>Industrial Processes: Mineral Products - Clay processing: Bentonite</i>	
	1450	Clay, Ceramic, & Refractory Minerals
	1459	Clay And Related Minerals, Nec
	3200	Stone, Clay, And Glass Products
	3250	Structural Clay Products
	3251	Brick And Structural Clay Tile
	3253	Ceramic Wall And Floor Tile
	3255	Clay Refractories

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	3259	Structural Clay Products, Nec
	3260	Pottery And Related Products
	3261	Vitreous Plumbing Fixtures
	3262	Vitreous China Table & Kitchenware
	3263	Semivitreous Table & Kitchenware
	3264	Porcelain Electrical Supplies
	3269	Pottery Products, Nec
3-85-001	<i>Industrial Processes: Cooling Tower - Process Cooling</i>	
	2061	Raw Cane Sugar
	2821	Plastics Materials And Resins
	2822	Synthetic Rubber
	2869	Industrial Organic Chemicals, Nec
	3312	Blast Furnaces And Steel Mills
	3511	Turbines And Turbine Generator Sets
	3699	Electrical Equipment & Supplies, Nec
	4911	Electric Services
	4931	Electric And Other Services Combined
3-90-001	<i>Industrial Processes: In-process Fuel Use - Anthracite Coal</i>	
	2621	Paper Mills
	3251	Brick And Structural Clay Tile
	3295	Minerals, Ground Or Treated
	3531	Construction Machinery
	4911	Electric Services
	7389	Business Services, Nec
	8734	Testing Laboratories
3-90-002	<i>Industrial Processes: In-process Fuel Use - Bituminous Coal</i>	
	1011	Iron Ores
	1221	Bituminous Coal And Lignite Surface
	1422	Crushed And Broken Limestone
	1459	Clay And Related Minerals, Nec
	1474	Potash, Soda, And Borate Minerals
	1499	Miscellaneous Nonmetallic Minerals
	2063	Beet Sugar
	2819	Industrial Inorganic Chemicals, Nec
	2874	Phosphatic Fertilizers
	2951	Asphalt Paving Mixtures And Blocks
	2999	Petroleum And Coal Products, Nec
	3241	Cement, Hydraulic
	3251	Brick And Structural Clay Tile
	3271	Concrete Block And Brick
	3272	Concrete Products, Nec
	3274	Lime
	3295	Minerals, Ground Or Treated
	3299	Nonmetallic Mineral Products, Nec
	3341	Secondary Nonferrous Metals
	3999	Manufacturing Industries, Nec
	7389	Business Services, Nec
	8711	Engineering Services
3-90-004	<i>Industrial Processes: In-process Fuel Use - Residual Oil</i>	
	0723	Crop Preparation Services For Market
	1011	Iron Ores
	1422	Crushed And Broken Limestone
	1423	Crushed And Broken Granite
	1446	Industrial Sand
	1459	Clay And Related Minerals, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	1499	Miscellaneous Nonmetallic Minerals
	1611	Highway And Street Construction
	2037	Frozen Fruits And Vegetables
	2046	Wet Corn Milling
	2063	Beet Sugar
	2082	Malt Beverages
	2092	Fresh Or Frozen Prepared Fish
	2099	Food Preparations, Nec
	2262	Finishing Plants, Manmade
	2281	Yarn Spinning Mills
	2436	Softwood Veneer And Plywood
	2611	Pulp Mills
	2621	Paper Mills
	2631	Paperboard Mills
	2679	Converted Paper Products, Nec
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2824	Organic Fibers, Noncellulosic
	2833	Medicinals And Botanicals
	2873	Nitrogenous Fertilizers
	2874	Phosphatic Fertilizers
	2895	Carbon Black
	2899	Chemical Preparations, Nec
	2911	Petroleum Refining
	2951	Asphalt Paving Mixtures And Blocks
	2952	Asphalt Felts And Coatings
	3086	Plastics Foam Products
	3221	Glass Containers
	3241	Cement, Hydraulic
	3255	Clay Refractories
	3274	Lime
	3275	Gypsum Products
	3295	Minerals, Ground Or Treated
	3297	Nonclay Refractories
	3312	Blast Furnaces And Steel Mills
	3341	Secondary Nonferrous Metals
	3357	Nonferrous Wiredrawing & Insulating
	3366	Copper Foundries
	3432	Plumbing Fixture Fittings And Trim
	3523	Farm Machinery And Equipment
	3999	Manufacturing Industries, Nec
	4911	Electric Services
	4953	Refuse Systems
	5093	Scrap And Waste Materials
	5171	Petroleum Bulk Stations & Terminals
	8711	Engineering Services
	9711	National Security
3-90-005	<i>Industrial Processes: In-process Fuel Use - Distillate Oil</i>	
	0723	Crop Preparation Services For Market
	1011	Iron Ores
	1411	Dimension Stone
	1422	Crushed And Broken Limestone
	1423	Crushed And Broken Granite
	1429	Crushed And Broken Stone, Nec
	1442	Construction Sand And Gravel
	1446	Industrial Sand
	1455	Kaolin And Ball Clay

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	1459	Clay And Related Minerals, Nec
	1474	Potash, Soda, And Borate Minerals
	1499	Miscellaneous Nonmetallic Minerals
	1611	Highway And Street Construction
	2022	Cheese, Natural And Processed
	2023	Dry, Condensed, Evaporated Products
	2041	Flour And Other Grain Mill Products
	2046	Wet Corn Milling
	2051	Bread, Cake, And Related Products
	2062	Cane Sugar Refining
	2077	Animal And Marine Fats And Oils
	2099	Food Preparations, Nec
	2431	Millwork
	2493	Reconstituted Wood Products
	2514	Metal Household Furniture
	2611	Pulp Mills
	2621	Paper Mills
	2679	Converted Paper Products, Nec
	2752	Commercial Printing, Lithographic
	2816	Inorganic Pigments
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2824	Organic Fibers, Noncellulosic
	2833	Medicinals And Botanicals
	2841	Soap And Other Detergents
	2843	Surface Active Agents
	2851	Paints And Allied Products
	2861	Gum And Wood Chemicals
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2873	Nitrogenous Fertilizers
	2874	Phosphatic Fertilizers
	2911	Petroleum Refining
	2951	Asphalt Paving Mixtures And Blocks
	2952	Asphalt Felts And Coatings
	2992	Lubricating Oils And Greases
	2999	Petroleum And Coal Products, Nec
	3069	Fabricated Rubber Products, Nec
	3089	Plastics Products, Nec
	3211	Flat Glass
	3221	Glass Containers
	3241	Cement, Hydraulic
	3251	Brick And Structural Clay Tile
	3255	Clay Refractories
	3272	Concrete Products, Nec
	3273	Ready-mixed Concrete
	3274	Lime
	3275	Gypsum Products
	3281	Cut Stone And Stone Products
	3292	Asbestos Products
	3295	Minerals, Ground Or Treated
	3296	Mineral Wool
	3297	Nonclay Refractories
	3299	Nonmetallic Mineral Products, Nec
	3312	Blast Furnaces And Steel Mills
	3313	Electrometallurgical Products
	3316	Cold Finishing Of Steel Shapes
	3325	Steel Foundries, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	3334	Primary Aluminum
	3339	Primary Nonferrous Metals, Nec
	3341	Secondary Nonferrous Metals
	3353	Aluminum Sheet, Plate, And Foil
	3354	Aluminum Extruded Products
	3357	Nonferrous Wiredrawing & Insulating
	3365	Aluminum Foundries
	3399	Primary Metal Products, Nec
	3423	Hand And Edge Tools, Nec
	3442	Metal Doors, Sash, And Trim
	3444	Sheet Metalwork
	3462	Iron And Steel Forgings
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3497	Metal Foil And Leaf
	3499	Fabricated Metal Products, Nec
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3552	Textile Machinery
	3561	Pumps And Pumping Equipment
	3567	Industrial Furnaces And Ovens
	3575	Computer Terminals
	3579	Office Machines, Nec
	3621	Motors And Generators
	3639	Household Appliances, Nec
	3674	Semiconductors And Related Devices
	3679	Electronic Components, Nec
	3713	Truck And Bus Bodies
	3724	Aircraft Engines And Engine Parts
	3731	Ship Building And Repairing
	3743	Railroad Equipment
	3861	Photographic Equipment And Supplies
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4491	Marine Cargo Handling
	4911	Electric Services
	4931	Electric And Other Services Combined
	4952	Sewerage Systems
	4953	Refuse Systems
	5093	Scrap And Waste Materials
	5153	Grain And Field Beans
	5169	Chemicals & Allied Products, Nec
	5211	Lumber And Other Building Materials
	7532	Top & Body Repair & Paint Shops
	8062	General Medical & Surgical Hospitals
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities
	9511	Air, Water, & Solid Waste Management
	9711	National Security
3-90-006	<i>Industrial Processes: In-process Fuel Use - Natural Gas</i>	
	0119	Cash Grains, Nec
	0174	Citrus Fruits
	0723	Crop Preparation Services For Market
	0724	Cotton Ginning
	1011	Iron Ores
	1041	Gold Ores



## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	1311	Crude Petroleum And Natural Gas
	1321	Natural Gas Liquids
	1389	Oil And Gas Field Services, Nec
	1411	Dimension Stone
	1422	Crushed And Broken Limestone
	1423	Crushed And Broken Granite
	1429	Crushed And Broken Stone, Nec
	1442	Construction Sand And Gravel
	1446	Industrial Sand
	1455	Kaolin And Ball Clay
	1474	Potash, Soda, And Borate Minerals
	1475	Phosphate Rock
	1499	Miscellaneous Nonmetallic Minerals
	1611	Highway And Street Construction
	1721	Painting And Paper Hanging
	1799	Special Trade Contractors, Nec
	2011	Meat Packing Plants
	2013	Sausages And Other Prepared Meats
	2021	Creamery Butter
	2022	Cheese, Natural And Processed
	2023	Dry, Condensed, Evaporated Products
	2026	Fluid Milk
	2033	Canned Fruits And Vegetables
	2035	Pickles, Sauces, And Salad Dressings
	2037	Frozen Fruits And Vegetables
	2038	Frozen Specialties, Nec
	2041	Flour And Other Grain Mill Products
	2043	Cereal Breakfast Foods
	2044	Rice Milling
	2046	Wet Corn Milling
	2047	Dog And Cat Food
	2048	Prepared Feeds, Nec
	2051	Bread, Cake, And Related Products
	2052	Cookies And Crackers
	2061	Raw Cane Sugar
	2062	Cane Sugar Refining
	2063	Beet Sugar
	2066	Chocolate And Cocoa Products
	2068	Salted And Roasted Nuts And Seeds
	2074	Cottonseed Oil Mills
	2075	Soybean Oil Mills
	2076	Vegetable Oil Mills, Nec
	2077	Animal And Marine Fats And Oils
	2082	Malt Beverages
	2083	Malt
	2085	Distilled And Blended Liquors
	2091	Canned And Cured Fish And Seafoods
	2095	Roasted Coffee
	2096	Potato Chips And Similar Snacks
	2099	Food Preparations, Nec
	2111	Cigarettes
	2211	Broadwoven Fabric Mills, Cotton
	2221	Broadwoven Fabric Mills, Manmade
	2231	Broadwoven Fabric Mills, Wool
	2241	Narrow Fabric Mills
	2253	Knit Outerwear Mills
	2257	Weft Knit Fabric Mills
	2258	Lace & Warp Knit Fabric Mills

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2261	Finishing Plants, Cotton
	2262	Finishing Plants, Manmade
	2269	Finishing Plants, Nec
	2273	Carpets And Rugs
	2281	Yarn Spinning Mills
	2284	Thread Mills
	2295	Coated Fabrics, Not Rubberized
	2296	Tire Cord And Fabrics
	2297	Nonwoven Fabrics
	2299	Textile Goods, Nec
	2329	Men's And Boys' Clothing, Nec
	2353	Hats, Caps, And Millinery
	2392	Housefurnishings, Nec
	2393	Textile Bags
	2396	Automotive And Apparel Trimmings
	2421	Sawmills And Planing Mills, General
	2429	Special Product Sawmills, Nec
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2436	Softwood Veneer And Plywood
	2491	Wood Preserving
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2591	Drapery Hardware & Blinds & Shades
	2599	Furniture And Fixtures, Nec
	2611	Pulp Mills
	2621	Paper Mills
	2631	Paperboard Mills
	2653	Corrugated And Solid Fiber Boxes
	2655	Fiber Cans, Drums & Similar Products
	2657	Folding Paperboard Boxes
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2674	Bags: Uncoated Paper & Multiwall
	2675	Die-cut Paper And Board
	2676	Sanitary Paper Products
	2679	Converted Paper Products, Nec
	2711	Newspapers
	2721	Periodicals
	2731	Book Publishing
	2732	Book Printing
	2741	Miscellaneous Publishing
	2752	Commercial Printing, Lithographic
	2754	Commercial Printing, Gravure
	2759	Commercial Printing, Nec
	2796	Platemaking Services
	2812	Alkalies And Chlorine
	2813	Industrial Gases
	2816	Inorganic Pigments

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2822	Synthetic Rubber
	2823	Cellulosic Manmade Fibers
	2824	Organic Fibers, Noncellulosic
	2833	Medicinals And Botanicals
	2834	Pharmaceutical Preparations
	2836	Biological Products Exc. Diagnostic
	2841	Soap And Other Detergents
	2843	Surface Active Agents
	2851	Paints And Allied Products
	2861	Gum And Wood Chemicals
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2873	Nitrogenous Fertilizers
	2874	Phosphatic Fertilizers
	2875	Fertilizers, Mixing Only
	2879	Agricultural Chemicals, Nec
	2891	Adhesives And Sealants
	2895	Carbon Black
	2899	Chemical Preparations, Nec
	2911	Petroleum Refining
	2951	Asphalt Paving Mixtures And Blocks
	2952	Asphalt Felts And Coatings
	2992	Lubricating Oils And Greases
	2999	Petroleum And Coal Products, Nec
	3053	Gaskets, Packing And Sealing Devices
	3069	Fabricated Rubber Products, Nec
	3081	Unsupported Plastics Film & Sheet
	3082	Unsupported Plastics Profile Shapes
	3085	Plastics Bottles
	3086	Plastics Foam Products
	3087	Custom Compound Purchased Resins
	3089	Plastics Products, Nec
	3111	Leather Tanning And Finishing
	3211	Flat Glass
	3221	Glass Containers
	3229	Pressed And Blown Glass, Nec
	3241	Cement, Hydraulic
	3251	Brick And Structural Clay Tile
	3253	Ceramic Wall And Floor Tile
	3255	Clay Refractories
	3259	Structural Clay Products, Nec
	3261	Vitreous Plumbing Fixtures
	3264	Porcelain Electrical Supplies
	3269	Pottery Products, Nec
	3272	Concrete Products, Nec
	3273	Ready-mixed Concrete
	3274	Lime
	3275	Gypsum Products
	3281	Cut Stone And Stone Products
	3291	Abrasive Products
	3292	Asbestos Products
	3295	Minerals, Ground Or Treated
	3296	Mineral Wool
	3297	Nonclay Refractories
	3299	Nonmetallic Mineral Products, Nec
	3312	Blast Furnaces And Steel Mills

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3313	Electrometallurgical Products
	3315	Steel Wire And Related Products
	3316	Cold Finishing Of Steel Shapes
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3322	Malleable Iron Foundries
	3324	Steel Investment Foundries
	3325	Steel Foundries, Nec
	3331	Primary Copper
	3334	Primary Aluminum
	3339	Primary Nonferrous Metals, Nec
	3341	Secondary Nonferrous Metals
	3351	Copper Rolling And Drawing
	3353	Aluminum Sheet, Plate, And Foil
	3354	Aluminum Extruded Products
	3355	Aluminum Rolling And Drawing, Nec
	3356	Nonferrous Rolling And Drawing, Nec
	3357	Nonferrous Wiredrawing & Insulating
	3363	Aluminum Die-castings
	3364	Nonferrous Die-casting Exc. Aluminum
	3365	Aluminum Foundries
	3366	Copper Foundries
	3369	Nonferrous Foundries, Nec
	3398	Metal Heat Treating
	3399	Primary Metal Products, Nec
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3421	Cutlery
	3423	Hand And Edge Tools, Nec
	3429	Hardware, Nec
	3431	Metal Sanitary Ware
	3432	Plumbing Fixture Fittings And Trim
	3433	Heating Equipment, Except Electric
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3451	Screw Machine Products
	3452	Bolts, Nuts, Rivets, And Washers
	3462	Iron And Steel Forgings
	3465	Automotive Stampings
	3466	Crowns And Closures
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3482	Small Arms Ammunition
	3489	Ordnance And Accessories, Nec
	3491	Industrial Valves
	3492	Fluid Power Valves & Hose Fittings
	3494	Valves And Pipe Fittings, Nec
	3495	Wire Springs
	3496	Misc. Fabricated Wire Products
	3497	Metal Foil And Leaf
	3499	Fabricated Metal Products, Nec
	3511	Turbines And Turbine Generator Sets
	3519	Internal Combustion Engines, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery
	3534	Elevators And Moving Stairways
	3535	Conveyors And Conveying Equipment
	3541	Machine Tools, Metal Cutting Types
	3542	Machine Tools, Metal Forming Types
	3543	Industrial Patterns
	3544	Special Dies, Tools, Jigs & Fixtures
	3545	Machine Tool Accessories
	3546	Power-driven Handtools
	3547	Rolling Mill Machinery
	3552	Textile Machinery
	3553	Woodworking Machinery
	3554	Paper Industries Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3562	Ball And Roller Bearings
	3563	Air And Gas Compressors
	3564	Blowers And Fans
	3567	Industrial Furnaces And Ovens
	3568	Power Transmission Equipment, Nec
	3569	General Industrial Machinery, Nec
	3571	Electronic Computers
	3572	Computer Storage Devices
	3579	Office Machines, Nec
	3585	Refrigeration And Heating Equipment
	3589	Service Industry Machinery, Nec
	3596	Scales And Balances, Exc. Laboratory
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3624	Carbon And Graphite Products
	3625	Relays And Industrial Controls
	3629	Electrical Industrial Apparatus, Nec
	3631	Household Cooking Equipment
	3632	Household Refrigerators And Freezers
	3633	Household Laundry Equipment
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3641	Electric Lamps
	3643	Current-carrying Wiring Devices
	3644	Noncurrent-carrying Wiring Devices
	3645	Residential Lighting Fixtures
	3646	Commercial Lighting Fixtures
	3648	Lighting Equipment, Nec
	3661	Telephone And Telegraph Apparatus
	3663	Radio & TV Communications Equipment
	3669	Communications Equipment, Nec
	3671	Electron Tubes
	3674	Semiconductors And Related Devices
	3679	Electronic Components, Nec
	3691	Storage Batteries
	3694	Engine Electrical Equipment
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3721	Aircraft
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3751	Motorcycles, Bicycles, And Parts
	3795	Tanks And Tank Components
	3799	Transportation Equipment, Nec
	3821	Laboratory Apparatus And Furniture
	3822	Environmental Controls
	3823	Process Control Instruments
	3826	Analytical Instruments
	3841	Surgical And Medical Instruments
	3842	Surgical Appliances And Supplies
	3844	X-ray Apparatus And Tubes
	3861	Photographic Equipment And Supplies
	3911	Jewelry, Precious Metal
	3914	Silverware And Plated Ware
	3942	Dolls And Stuffed Toys
	3949	Sporting And Athletic Goods, Nec
	3951	Pens And Mechanical Pencils
	3955	Carbon Paper And Inked Ribbons
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3996	Hard Surface Floor Coverings, Nec
	3999	Manufacturing Industries, Nec
	4111	Local And Suburban Transit
	4221	Farm Product Warehousing And Storage
	4512	Air Transportation, Scheduled
	4581	Airports, Flying Fields, & Services
	4741	Rental Of Railroad Cars
	4911	Electric Services
	4922	Natural Gas Transmission
	4923	Gas Transmission And Distribution
	4924	Natural Gas Distribution
	4925	Gas Production And/or Distribution
	4939	Combination Utilities, Nec
	4941	Water Supply
	4952	Sewerage Systems
	4953	Refuse Systems
	4961	Steam And Air-conditioning Supply
	5039	Construction Materials, Nec
	5078	Refrigeration Equipment And Supplies
	5085	Industrial Supplies
	5088	Transportation Equipment & Supplies
	5093	Scrap And Waste Materials
	5111	Printing And Writing Paper
	5142	Packaged Frozen Foods
	5149	Groceries And Related Products, Nec
	5153	Grain And Field Beans
	5171	Petroleum Bulk Stations & Terminals
	5191	Farm Supplies
	5511	New And Used Car Dealers
	5541	Gasoline Service Stations
	5699	Misc. Apparel & Accessory Stores
	6512	Nonresidential Building Operators
	6513	Apartment Building Operators
	7011	Hotels And Motels

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	7211	Power Laundries, Family & Commercial
	7213	Linen Supply
	7216	Drycleaning Plants, Except Rug
	7218	Industrial Launderers
	7219	Laundry And Garment Services, Nec
	7261	Funeral Service And Crematories
	7336	Commercial Art And Graphic Design
	7389	Business Services, Nec
	7532	Top & Body Repair & Paint Shops
	7694	Armature Rewinding Shops
	7699	Repair Services, Nec
	8051	Skilled Nursing Care Facilities
	8062	General Medical & Surgical Hospitals
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities
	8699	Membership Organizations, Nec
	8711	Engineering Services
	8731	Commercial Physical Research
	9223	Correctional Institutions
	9511	Air, Water, & Solid Waste Management
	9711	National Security

### 3-90-007 Industrial Processes: In-process Fuel Use - Process Gas

1311	Crude Petroleum And Natural Gas
2099	Food Preparations, Nec
2395	Pleating And Stitching
2813	Industrial Gases
2819	Industrial Inorganic Chemicals, Nec
2865	Cyclic Crudes And Intermediates
2869	Industrial Organic Chemicals, Nec
2873	Nitrogenous Fertilizers
2895	Carbon Black
2911	Petroleum Refining
3269	Pottery Products, Nec
3312	Blast Furnaces And Steel Mills
3321	Gray And Ductile Iron Foundries
3357	Nonferrous Wiredrawing & Insulating
3398	Metal Heat Treating
3585	Refrigeration And Heating Equipment
3599	Industrial Machinery, Nec
3714	Motor Vehicle Parts And Accessories
3999	Manufacturing Industries, Nec
4789	Transportation Services, Nec
4911	Electric Services
4931	Electric And Other Services Combined
4952	Sewerage Systems
4953	Refuse Systems
5171	Petroleum Bulk Stations & Terminals
9511	Air, Water, & Solid Waste Management

### 3-90-009 Industrial Processes: In-process Fuel Use - Wood

1011	Iron Ores
1459	Clay And Related Minerals, Nec
2013	Sausages And Other Prepared Meats
2048	Prepared Feeds, Nec
2063	Beet Sugar
2221	Broadwoven Fabric Mills, Manmade
2231	Broadwoven Fabric Mills, Wool
2299	Textile Goods, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	2421	Sawmills And Planing Mills, General
	2429	Special Product Sawmills, Nec
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2611	Pulp Mills
	2621	Paper Mills
	2679	Converted Paper Products, Nec
	2836	Biological Products Exc. Diagnostic
	2911	Petroleum Refining
	3251	Brick And Structural Clay Tile
	3295	Minerals, Ground Or Treated
	3296	Mineral Wool
	3339	Primary Nonferrous Metals, Nec
	3433	Heating Equipment, Except Electric
	3524	Lawn And Garden Equipment
	3559	Special Industry Machinery, Nec
	3999	Manufacturing Industries, Nec
	4952	Sewerage Systems
	5153	Grain And Field Beans
	5812	Eating Places
3-90-010	<i>Industrial Processes: In-process Fuel Use - Liquefied Petroleum Gas</i>	
	0252	Chicken Eggs
	0723	Crop Preparation Services For Market
	0724	Cotton Ginning
	1011	Iron Ores
	1041	Gold Ores
	1422	Crushed And Broken Limestone
	1446	Industrial Sand
	1611	Highway And Street Construction
	2013	Sausages And Other Prepared Meats
	2015	Poultry Slaughtering And Processing
	2021	Creamery Butter
	2022	Cheese, Natural And Processed
	2023	Dry, Condensed, Evaporated Products
	2047	Dog And Cat Food
	2048	Prepared Feeds, Nec
	2051	Bread, Cake, And Related Products
	2052	Cookies And Crackers
	2068	Salted And Roasted Nuts And Seeds
	2075	Soybean Oil Mills
	2076	Vegetable Oil Mills, Nec
	2083	Malt
	2085	Distilled And Blended Liquors
	2099	Food Preparations, Nec
	2211	Broadwoven Fabric Mills, Cotton
	2221	Broadwoven Fabric Mills, Manmade
	2231	Broadwoven Fabric Mills, Wool
	2241	Narrow Fabric Mills
	2261	Finishing Plants, Cotton
	2262	Finishing Plants, Manmade
	2273	Carpets And Rugs
	2281	Yarn Spinning Mills
	2295	Coated Fabrics, Not Rubberized
	2297	Nonwoven Fabrics
	2392	Housefurnishings, Nec
	2421	Sawmills And Planing Mills, General
	2426	Hardwood Dimension & Flooring Mills



## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2435	Hardwood Veneer And Plywood
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2522	Office Furniture, Except Wood
	2611	Pulp Mills
	2621	Paper Mills
	2657	Folding Paperboard Boxes
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2732	Book Printing
	2752	Commercial Printing, Lithographic
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2861	Gum And Wood Chemicals
	2869	Industrial Organic Chemicals, Nec
	2874	Phosphatic Fertilizers
	2951	Asphalt Paving Mixtures And Blocks
	3053	Gaskets, Packing And Sealing Devices
	3081	Unsupported Plastics Film & Sheet
	3085	Plastics Bottles
	3086	Plastics Foam Products
	3089	Plastics Products, Nec
	3111	Leather Tanning And Finishing
	3259	Structural Clay Products, Nec
	3275	Gypsum Products
	3291	Abrasive Products
	3315	Steel Wire And Related Products
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3325	Steel Foundries, Nec
	3339	Primary Nonferrous Metals, Nec
	3341	Secondary Nonferrous Metals
	3353	Aluminum Sheet, Plate, And Foil
	3354	Aluminum Extruded Products
	3363	Aluminum Die-castings
	3399	Primary Metal Products, Nec
	3411	Metal Cans
	3433	Heating Equipment, Except Electric
	3441	Fabricated Structural Metal
	3444	Sheet Metalwork
	3448	Prefabricated Metal Buildings
	3471	Plating And Polishing
	3482	Small Arms Ammunition
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3554	Paper Industries Machinery
	3561	Pumps And Pumping Equipment
	3569	General Industrial Machinery, Nec
	3581	Automatic Vending Machines
	3599	Industrial Machinery, Nec
	3621	Motors And Generators
	3624	Carbon And Graphite Products
	3644	Noncurrent-carrying Wiring Devices
	3648	Lighting Equipment, Nec
	3674	Semiconductors And Related Devices
	3691	Storage Batteries
	3711	Motor Vehicles And Car Bodies

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3799	Transportation Equipment, Nec
	3841	Surgical And Medical Instruments
	3995	Burial Caskets
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4111	Local And Suburban Transit
	4221	Farm Product Warehousing And Storage
	4226	Special Warehousing And Storage, Nec
	4953	Refuse Systems
	5153	Grain And Field Beans
	5171	Petroleum Bulk Stations & Terminals
	5191	Farm Supplies
	7218	Industrial Launderers
	7389	Business Services, Nec
	7694	Armature Rewinding Shops
	8062	General Medical & Surgical Hospitals
	8661	Religious Organizations
	9511	Air, Water, & Solid Waste Management
	9711	National Security
3-90-013	<i>Industrial Processes: In-process Fuel Use - Liquid Waste</i>	
	1429	Crushed And Broken Stone, Nec
	1499	Miscellaneous Nonmetallic Minerals
	2023	Dry, Condensed, Evaporated Products
	2653	Corrugated And Solid Fiber Boxes
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2824	Organic Fibers, Noncellulosic
	2843	Surface Active Agents
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2951	Asphalt Paving Mixtures And Blocks
	3089	Plastics Products, Nec
	3241	Cement, Hydraulic
	3274	Lime
	3295	Minerals, Ground Or Treated
	3312	Blast Furnaces And Steel Mills
	3999	Manufacturing Industries, Nec
	4953	Refuse Systems
4-02-001	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General</i>	
	0711	Soil Preparation Services
	0782	Lawn And Garden Services
	1021	Copper Ores
	1241	Coal Mining Services
	1311	Crude Petroleum And Natural Gas
	1382	Oil And Gas Exploration Services
	1389	Oil And Gas Field Services, Nec
	1422	Crushed And Broken Limestone
	1522	Residential Construction, Nec
	1541	Industrial Buildings And Warehouses
	1542	Nonresidential Construction, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	1622	Bridge, Tunnel, & Elevated Highway
	1623	Water, Sewer, And Utility Lines
	1629	Heavy Construction, Nec
	1711	Plumbing, Heating, Air-conditioning
	1721	Painting And Paper Hanging
	1731	Electrical Work
	1741	Masonry And Other Stonework
	1742	Plastering, Drywall, And Insulation
	1751	Carpentry Work
	1761	Roofing, Siding, And Sheet Metal Work
	1771	Concrete Work
	1791	Structural Steel Erection
	1796	Installing Building Equipment, Nec
	1799	Special Trade Contractors, Nec
	2026	Fluid Milk
	2033	Canned Fruits And Vegetables
	2043	Cereal Breakfast Foods
	2048	Prepared Feeds, Nec
	2051	Bread, Cake, And Related Products
	2068	Salted And Roasted Nuts And Seeds
	2086	Bottled And Canned Soft Drinks
	2087	Flavoring Extracts And Syrups, Nec
	2091	Canned And Cured Fish And Seafoods
	2096	Potato Chips And Similar Snacks
	2099	Food Preparations, Nec
	2211	Broadwoven Fabric Mills, Cotton
	2231	Broadwoven Fabric Mills, Wool
	2259	Knitting Mills, Nec
	2261	Finishing Plants, Cotton
	2262	Finishing Plants, Manmade
	2269	Finishing Plants, Nec
	2273	Carpets And Rugs
	2295	Coated Fabrics, Not Rubberized
	2298	Cordage And Twine
	2299	Textile Goods, Nec
	2331	Women's & Misses' Blouses & Shirts
	2384	Robes And Dressing Gowns
	2387	Apparel Belts
	2392	Housefurnishings, Nec
	2394	Canvas And Related Products
	2395	Pleating And Stitching
	2399	Fabricated Textile Products, Nec
	2411	Logging
	2421	Sawmills And Planing Mills, General
	2426	Hardwood Dimension & Flooring Mills
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2441	Nailed Wood Boxes And Shook
	2449	Wood Containers, Nec
	2451	Mobile Homes
	2452	Prefabricated Wood Buildings
	2491	Wood Preserving
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2515	Mattresses And Bedsprings
	2519	Household Furniture, Nec
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2591	Drapery Hardware & Blinds & Shades
	2599	Furniture And Fixtures, Nec
	2621	Paper Mills
	2631	Paperboard Mills
	2653	Corrugated And Solid Fiber Boxes
	2655	Fiber Cans, Drums & Similar Products
	2656	Sanitary Food Containers
	2657	Folding Paperboard Boxes
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2673	Bags: Plastics, Laminated, & Coated
	2675	Die-cut Paper And Board
	2676	Sanitary Paper Products
	2711	Newspapers
	2732	Book Printing
	2752	Commercial Printing, Lithographic
	2754	Commercial Printing, Gravure
	2759	Commercial Printing, Nec
	2782	Blankbooks And Looseleaf Binders
	2796	Platemaking Services
	2813	Industrial Gases
	2816	Inorganic Pigments
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2822	Synthetic Rubber
	2823	Cellulosic Manmade Fibers
	2833	Medicinals And Botanicals
	2834	Pharmaceutical Preparations
	2841	Soap And Other Detergents
	2842	Polishes And Sanitation Goods
	2843	Surface Active Agents
	2844	Toilet Preparations
	2851	Paints And Allied Products
	2869	Industrial Organic Chemicals, Nec
	2879	Agricultural Chemicals, Nec
	2891	Adhesives And Sealants
	2892	Explosives
	2893	Printing Ink
	2899	Chemical Preparations, Nec
	2911	Petroleum Refining
	2951	Asphalt Paving Mixtures And Blocks
	2952	Asphalt Felts And Coatings
	3011	Tires And Inner Tubes
	3052	Rubber & Plastics Hose & Belting
	3053	Gaskets, Packing And Sealing Devices
	3061	Mechanical Rubber Goods
	3069	Fabricated Rubber Products, Nec
	3081	Unsupported Plastics Film & Sheet
	3082	Unsupported Plastics Profile Shapes
	3083	Laminated Plastics Plate & Sheet
	3085	Plastics Bottles

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3086	Plastics Foam Products
	3087	Custom Compound Purchased Resins
	3088	Plastics Plumbing Fixtures
	3089	Plastics Products, Nec
	3111	Leather Tanning And Finishing
	3131	Footwear Cut Stock
	3143	Men's Footwear, Except Athletic
	3161	Luggage
	3172	Personal Leather Goods, Nec
	3199	Leather Goods, Nec
	3211	Flat Glass
	3229	Pressed And Blown Glass, Nec
	3231	Products Of Purchased Glass
	3241	Cement, Hydraulic
	3253	Ceramic Wall And Floor Tile
	3255	Clay Refractories
	3261	Vitreous Plumbing Fixtures
	3269	Pottery Products, Nec
	3272	Concrete Products, Nec
	3273	Ready-mixed Concrete
	3275	Gypsum Products
	3281	Cut Stone And Stone Products
	3291	Abrasive Products
	3292	Asbestos Products
	3295	Minerals, Ground Or Treated
	3296	Mineral Wool
	3297	Nonclay Refractories
	3299	Nonmetallic Mineral Products, Nec
	3312	Blast Furnaces And Steel Mills
	3315	Steel Wire And Related Products
	3316	Cold Finishing Of Steel Shapes
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3322	Malleable Iron Foundries
	3325	Steel Foundries, Nec
	3334	Primary Aluminum
	3339	Primary Nonferrous Metals, Nec
	3341	Secondary Nonferrous Metals
	3354	Aluminum Extruded Products
	3356	Nonferrous Rolling And Drawing, Nec
	3357	Nonferrous Wiredrawing & Insulating
	3363	Aluminum Die-castings
	3364	Nonferrous Die-casting Exc. Aluminum
	3365	Aluminum Foundries
	3366	Copper Foundries
	3369	Nonferrous Foundries, Nec
	3399	Primary Metal Products, Nec
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3423	Hand And Edge Tools, Nec
	3429	Hardware, Nec
	3431	Metal Sanitary Ware
	3432	Plumbing Fixture Fittings And Trim
	3433	Heating Equipment, Except Electric
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3446	Architectural Metal Work
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3451	Screw Machine Products
	3452	Bolts, Nuts, Rivets, And Washers
	3462	Iron And Steel Forgings
	3465	Automotive Stampings
	3466	Crowns And Closures
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3482	Small Arms Ammunition
	3483	Ammunition, Exc. For Small Arms, Nec
	3484	Small Arms
	3489	Ordnance And Accessories, Nec
	3491	Industrial Valves
	3492	Fluid Power Valves & Hose Fittings
	3493	Steel Springs, Except Wire
	3494	Valves And Pipe Fittings, Nec
	3495	Wire Springs
	3496	Misc. Fabricated Wire Products
	3497	Metal Foil And Leaf
	3498	Fabricated Pipe And Fittings
	3499	Fabricated Metal Products, Nec
	3511	Turbines And Turbine Generator Sets
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery
	3533	Oil And Gas Field Machinery
	3534	Elevators And Moving Stairways
	3535	Conveyors And Conveying Equipment
	3536	Hoists, Cranes, And Monorails
	3537	Industrial Trucks And Tractors
	3541	Machine Tools, Metal Cutting Types
	3542	Machine Tools, Metal Forming Types
	3543	Industrial Patterns
	3544	Special Dies, Tools, Jigs & Fixtures
	3545	Machine Tool Accessories
	3548	Welding Apparatus
	3549	Metalworking Machinery, Nec
	3552	Textile Machinery
	3553	Woodworking Machinery
	3554	Paper Industries Machinery
	3555	Printing Trades Machinery
	3556	Food Products Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3562	Ball And Roller Bearings
	3563	Air And Gas Compressors
	3564	Blowers And Fans
	3566	Speed Changers, Drives, And Gears
	3567	Industrial Furnaces And Ovens
	3569	General Industrial Machinery, Nec
	3571	Electronic Computers
	3575	Computer Terminals
	3577	Computer Peripheral Equipment, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3578	Calculating And Accounting Equipment
	3579	Office Machines, Nec
	3581	Automatic Vending Machines
	3582	Commercial Laundry Equipment
	3585	Refrigeration And Heating Equipment
	3586	Measuring And Dispensing Pumps
	3589	Service Industry Machinery, Nec
	3592	Carburetors, Pistons, Rings, Valves
	3593	Fluid Power Cylinders & Actuators
	3594	Fluid Power Pumps And Motors
	3596	Scales And Balances, Exc. Laboratory
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3624	Carbon And Graphite Products
	3625	Relays And Industrial Controls
	3629	Electrical Industrial Apparatus, Nec
	3631	Household Cooking Equipment
	3632	Household Refrigerators And Freezers
	3633	Household Laundry Equipment
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3641	Electric Lamps
	3643	Current-carrying Wiring Devices
	3644	Noncurrent-carrying Wiring Devices
	3645	Residential Lighting Fixtures
	3646	Commercial Lighting Fixtures
	3647	Vehicular Lighting Equipment
	3648	Lighting Equipment, Nec
	3651	Household Audio And Video Equipment
	3661	Telephone And Telegraph Apparatus
	3663	Radio & TV Communications Equipment
	3669	Communications Equipment, Nec
	3671	Electron Tubes
	3674	Semiconductors And Related Devices
	3675	Electronic Capacitors
	3676	Electronic Resistors
	3677	Electronic Coils And Transformers
	3678	Electronic Connectors
	3679	Electronic Components, Nec
	3691	Storage Batteries
	3692	Primary Batteries, Dry And Wet
	3694	Engine Electrical Equipment
	3695	Magnetic And Optical Recording Media
	3699	Electrical Equipment & Supplies, Nec
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3716	Motor Homes
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3751	Motorcycles, Bicycles, And Parts
	3761	Guided Missiles And Space Vehicles

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3764	Space Propulsion Units And Parts
	3769	Space Vehicle Equipment, Nec
	3792	Travel Trailers And Campers
	3795	Tanks And Tank Components
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3821	Laboratory Apparatus And Furniture
	3822	Environmental Controls
	3823	Process Control Instruments
	3825	Instruments To Measure Electricity
	3826	Analytical Instruments
	3827	Optical Instruments And Lenses
	3829	Measuring & Controlling Devices, Nec
	3841	Surgical And Medical Instruments
	3842	Surgical Appliances And Supplies
	3843	Dental Equipment And Supplies
	3844	X-ray Apparatus And Tubes
	3851	Ophthalmic Goods
	3861	Photographic Equipment And Supplies
	3931	Musical Instruments
	3942	Dolls And Stuffed Toys
	3944	Games, Toys, And Children's Vehicles
	3949	Sporting And Athletic Goods, Nec
	3952	Lead Pencils And Art Goods
	3955	Carbon Paper And Inked Ribbons
	3991	Brooms And Brushes
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3996	Hard Surface Floor Coverings, Nec
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4111	Local And Suburban Transit
	4121	Taxicabs
	4131	Intercity & Rural Bus Transportation
	4212	Local Trucking, Without Storage
	4213	Trucking, Except Local
	4215	Courier Services, Except By Air
	4225	General Warehousing And Storage
	4226	Special Warehousing And Storage, Nec
	4231	Trucking Terminal Facilities
	4311	U.S. Postal Service
	4424	Deep Sea Domestic Trans. Of Freight
	4491	Marine Cargo Handling
	4493	Marinas
	4512	Air Transportation, Scheduled
	4581	Airports, Flying Fields, & Services
	4729	Passenger Transport Arrangement, Nec
	4741	Rental Of Railroad Cars
	4783	Packing And Crating
	4785	Inspection & Fixed Facilities
	4789	Transportation Services, Nec
	4813	Telephone Communications, Exc. Radio
	4833	Television Broadcasting Stations
	4911	Electric Services
	4922	Natural Gas Transmission
	4923	Gas Transmission And Distribution
	4925	Gas Production And/or Distribution
	4931	Electric And Other Services Combined



## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	4939	Combination Utilities, Nec
	4941	Water Supply
	4952	Sewerage Systems
	4953	Refuse Systems
	4959	Sanitary Services, Nec
	4961	Steam And Air-conditioning Supply
	5012	Automobiles And Other Motor Vehicles
	5015	Motor Vehicle Parts, Used
	5021	Furniture
	5023	Homefurnishings
	5031	Lumber, Plywood, And Millwork
	5032	Brick, Stone, & Related Materials
	5033	Roofing, Siding, & Insulation
	5039	Construction Materials, Nec
	5043	Photographic Equipment And Supplies
	5044	Office Equipment
	5045	Computers, Peripherals & Software
	5046	Commercial Equipment, Nec
	5047	Medical And Hospital Equipment
	5051	Metals Service Centers And Offices
	5064	Electrical Appliances, TV & Radios
	5065	Electronic Parts And Equipment
	5074	Plumbing & Hydronic Heating Supplies
	5075	Warm Air Heating & Air-conditioning
	5078	Refrigeration Equipment And Supplies
	5082	Construction And Mining Machinery
	5083	Farm And Garden Machinery
	5084	Industrial Machinery And Equipment
	5085	Industrial Supplies
	5087	Service Establishment Equipment
	5088	Transportation Equipment & Supplies
	5091	Sporting & Recreational Goods
	5092	Toys And Hobby Goods And Supplies
	5093	Scrap And Waste Materials
	5099	Durable Goods, Nec
	5113	Industrial & Personal Service Paper
	5122	Drugs, Proprietarys, And Sundries
	5131	Piece Goods & Notions
	5169	Chemicals & Allied Products, Nec
	5171	Petroleum Bulk Stations & Terminals
	5172	Petroleum Products, Nec
	5198	Paints, Varnishes, And Supplies
	5199	Nondurable Goods, Nec
	5211	Lumber And Other Building Materials
	5231	Paint, Glass, And Wallpaper Stores
	5251	Hardware Stores
	5261	Retail Nurseries And Garden Stores
	5271	Mobile Home Dealers
	5311	Department Stores
	5399	Misc. General Merchandise Stores
	5411	Grocery Stores
	5511	New And Used Car Dealers
	5521	Used Car Dealers
	5531	Auto And Home Supply Stores
	5541	Gasoline Service Stations
	5561	Recreational Vehicle Dealers
	5571	Motorcycle Dealers
	5599	Automotive Dealers, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	5712	Furniture Stores
	5719	Misc. Homefurnishings Stores
	5722	Household Appliance Stores
	5734	Computer And Software Stores
	5736	Musical Instrument Stores
	5812	Eating Places
	5932	Used Merchandise Stores
	5941	Sporting Goods And Bicycle Shops
	5943	Stationery Stores
	5994	News Dealers And Newsstands
	5999	Miscellaneous Retail Stores, Nec
	6021	National Commercial Banks
	6035	Federal Savings Institutions
	6111	Federal & Fed.-sponsored Credit
	6321	Accident And Health Insurance
	6512	Nonresidential Building Operators
	6552	Subdividers And Developers, Nec
	6553	Cemetery Subdividers And Developers
	6719	Holding Companies, Nec
	6732	Educational, Religious, Etc. Trusts
	6799	Investors, Nec
	7011	Hotels And Motels
	7216	Drycleaning Plants, Except Rug
	7221	Photographic Studios, Portrait
	7261	Funeral Service And Crematories
	7311	Advertising Agencies
	7335	Commercial Photography
	7336	Commercial Art And Graphic Design
	7349	Building Maintenance Services, Nec
	7352	Medical Equipment Rental
	7359	Equipment Rental & Leasing, Nec
	7371	Computer Programming Services
	7372	Prepackaged Software
	7373	Computer Integrated Systems Design
	7377	Computer Rental & Leasing
	7379	Computer Related Services, Nec
	7381	Detective & Armored Car Services
	7382	Security Systems Services
	7384	Photofinishing Laboratories
	7389	Business Services, Nec
	7513	Truck Rental And Leasing, No Drivers
	7514	Passenger Car Rental
	7521	Automobile Parking
	7532	Top & Body Repair & Paint Shops
	7533	Auto Exhaust System Repair Shops
	7534	Tire Retreading And Repair Shops
	7538	General Automotive Repair Shops
	7539	Automotive Repair Shops, Nec
	7542	Carwashes
	7549	Automotive Services, Nec
	7629	Electrical Repair Shops, Nec
	7641	Reupholstery And Furniture Repair
	7692	Welding Repair
	7694	Armature Rewinding Shops
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	7832	Motion Picture Theaters, Ex Drive-in
	7929	Entertainers & Entertainment Groups

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	7948	Racing, Including Track Operation
	7991	Physical Fitness Facilities
	7996	Amusement Parks
	7999	Amusement And Recreation, Nec
	8011	Offices & Clinics Of Medical Doctors
	8049	Offices Of Health Practitioners, Nec
	8062	General Medical & Surgical Hospitals
	8063	Psychiatric Hospitals
	8093	Specialty Outpatient Clinics, Nec
	8111	Legal Services
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities
	8222	Junior Colleges
	8231	Libraries
	8249	Vocational Schools, Nec
	8299	Schools & Educational Services, Nec
	8322	Individual And Family Services
	8361	Residential Care
	8412	Museums And Art Galleries
	8621	Professional Organizations
	8711	Engineering Services
	8712	Architectural Services
	8731	Commercial Physical Research
	8732	Commercial Nonphysical Research
	8733	Noncommercial Research Organizations
	8734	Testing Laboratories
	8741	Management Services
	8999	Services, Nec
	9111	Executive Offices
	9199	General Government, Nec
	9221	Police Protection
	9223	Correctional Institutions
	9411	Admin. Of Educational Programs
	9441	Admin. Of Social & Manpower Programs
	9511	Air, Water, & Solid Waste Management
	9531	Housing Programs
	9621	Regulation, Admin. Of Transportation
	9631	Regulation, Admin. Of Utilities
	9661	Space Research And Technology
	9711	National Security
4-02-002	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General</i>	
	1241	Coal Mining Services
	1311	Crude Petroleum And Natural Gas
	1721	Painting And Paper Hanging
	2047	Dog And Cat Food
	2295	Coated Fabrics, Not Rubberized
	2326	Men's And Boys' Work Clothing
	2421	Sawmills And Planing Mills, General
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2449	Wood Containers, Nec
	2451	Mobile Homes
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2519	Household Furniture, Nec
	2531	Public Building & Related Furniture

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2599	Furniture And Fixtures, Nec
	2621	Paper Mills
	2631	Paperboard Mills
	2653	Corrugated And Solid Fiber Boxes
	2655	Fiber Cans, Drums & Similar Products
	2657	Folding Paperboard Boxes
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2675	Die-cut Paper And Board
	2679	Converted Paper Products, Nec
	2752	Commercial Printing, Lithographic
	2821	Plastics Materials And Resins
	2834	Pharmaceutical Preparations
	2841	Soap And Other Detergents
	2851	Paints And Allied Products
	2891	Adhesives And Sealants
	2899	Chemical Preparations, Nec
	3011	Tires And Inner Tubes
	3053	Gaskets, Packing And Sealing Devices
	3069	Fabricated Rubber Products, Nec
	3085	Plastics Bottles
	3087	Custom Compound Purchased Resins
	3089	Plastics Products, Nec
	3111	Leather Tanning And Finishing
	3143	Men's Footwear, Except Athletic
	3172	Personal Leather Goods, Nec
	3229	Pressed And Blown Glass, Nec
	3255	Clay Refractories
	3272	Concrete Products, Nec
	3281	Cut Stone And Stone Products
	3296	Mineral Wool
	3316	Cold Finishing Of Steel Shapes
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3322	Malleable Iron Foundries
	3325	Steel Foundries, Nec
	3363	Aluminum Die-castings
	3365	Aluminum Foundries
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3423	Hand And Edge Tools, Nec
	3429	Hardware, Nec
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3462	Iron And Steel Forgings
	3465	Automotive Stampings
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3489	Ordnance And Accessories, Nec
	3494	Valves And Pipe Fittings, Nec
	3496	Misc. Fabricated Wire Products
	3499	Fabricated Metal Products, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3511	Turbines And Turbine Generator Sets
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery
	3535	Conveyors And Conveying Equipment
	3541	Machine Tools, Metal Cutting Types
	3544	Special Dies, Tools, Jigs & Fixtures
	3555	Printing Trades Machinery
	3556	Food Products Machinery
	3561	Pumps And Pumping Equipment
	3563	Air And Gas Compressors
	3564	Blowers And Fans
	3569	General Industrial Machinery, Nec
	3571	Electronic Computers
	3572	Computer Storage Devices
	3577	Computer Peripheral Equipment, Nec
	3579	Office Machines, Nec
	3581	Automatic Vending Machines
	3585	Refrigeration And Heating Equipment
	3589	Service Industry Machinery, Nec
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3625	Relays And Industrial Controls
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3641	Electric Lamps
	3645	Residential Lighting Fixtures
	3651	Household Audio And Video Equipment
	3661	Telephone And Telegraph Apparatus
	3669	Communications Equipment, Nec
	3679	Electronic Components, Nec
	3699	Electrical Equipment & Supplies, Nec
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3841	Surgical And Medical Instruments
	3861	Photographic Equipment And Supplies
	3944	Games, Toys, And Children's Vehicles
	3949	Sporting And Athletic Goods, Nec
	3996	Hard Surface Floor Coverings, Nec
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4581	Airports, Flying Fields, & Services
	4729	Passenger Transport Arrangement, Nec
	4833	Television Broadcasting Stations
	4911	Electric Services
	4931	Electric And Other Services Combined

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	4953	Refuse Systems
	5031	Lumber, Plywood, And Millwork
	5082	Construction And Mining Machinery
	5084	Industrial Machinery And Equipment
	5141	Groceries, General Line
	5171	Petroleum Bulk Stations & Terminals
	5411	Grocery Stores
	5712	Furniture Stores
	5912	Drug Stores And Proprietary Stores
	6321	Accident And Health Insurance
	7011	Hotels And Motels
	7216	Drycleaning Plants, Except Rug
	7312	Outdoor Advertising Services
	7521	Automobile Parking
	7532	Top & Body Repair & Paint Shops
	7534	Tire Retreading And Repair Shops
	7538	General Automotive Repair Shops
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	7996	Amusement Parks
	7999	Amusement And Recreation, Nec
	8062	General Medical & Surgical Hospitals
	8063	Psychiatric Hospitals
	8069	Specialty Hospitals Exc. Psychiatric
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities
	8361	Residential Care
	8731	Commercial Physical Research
	8741	Management Services
	9199	General Government, Nec
	9223	Correctional Institutions
	9621	Regulation, Admin. Of Transportation
	9661	Space Research And Technology
	9711	National Security
4-02-003	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General</i>	
	1061	Ferroalloy Ores, Except Vanadium
	1721	Painting And Paper Hanging
	2426	Hardwood Dimension & Flooring Mills
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2517	Wood Tv And Radio Cabinets
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2599	Furniture And Fixtures, Nec
	2621	Paper Mills
	2655	Fiber Cans, Drums & Similar Products
	2656	Sanitary Food Containers
	2672	Paper Coated And Laminated, Nec
	2732	Book Printing
	2752	Commercial Printing, Lithographic

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2759	Commercial Printing, Nec
	2875	Fertilizers, Mixing Only
	3069	Fabricated Rubber Products, Nec
	3083	Laminated Plastics Plate & Sheet
	3087	Custom Compound Purchased Resins
	3089	Plastics Products, Nec
	3271	Concrete Block And Brick
	3281	Cut Stone And Stone Products
	3292	Asbestos Products
	3312	Blast Furnaces And Steel Mills
	3317	Steel Pipe And Tubes
	3357	Nonferrous Wiredrawing & Insulating
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3429	Hardware, Nec
	3444	Sheet Metalwork
	3465	Automotive Stampings
	3466	Crowns And Closures
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3491	Industrial Valves
	3498	Fabricated Pipe And Fittings
	3499	Fabricated Metal Products, Nec
	3523	Farm Machinery And Equipment
	3536	Hoists, Cranes, And Monorails
	3542	Machine Tools, Metal Forming Types
	3545	Machine Tool Accessories
	3548	Welding Apparatus
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3625	Relays And Industrial Controls
	3629	Electrical Industrial Apparatus, Nec
	3634	Electric Housewares And Fans
	3674	Semiconductors And Related Devices
	3677	Electronic Coils And Transformers
	3679	Electronic Components, Nec
	3694	Engine Electrical Equipment
	3699	Electrical Equipment & Supplies, Nec
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3716	Motor Homes
	3721	Aircraft
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3792	Travel Trailers And Campers
	3825	Instruments To Measure Electricity
	3841	Surgical And Medical Instruments
	3844	X-ray Apparatus And Tubes
	3845	Electromedical Equipment
	3931	Musical Instruments
	3944	Games, Toys, And Children's Vehicles
	3949	Sporting And Athletic Goods, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	3955	Carbon Paper And Inked Ribbons
	3991	Brooms And Brushes
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3999	Manufacturing Industries, Nec
	4013	Switching And Terminal Services
	5065	Electronic Parts And Equipment
	5083	Farm And Garden Machinery
	5511	New And Used Car Dealers
	7216	Drycleaning Plants, Except Rug
	7389	Business Services, Nec
	7532	Top & Body Repair & Paint Shops
	7629	Electrical Repair Shops, Nec
	7641	Reupholstery And Furniture Repair
	7694	Armature Rewinding Shops
	8062	General Medical & Surgical Hospitals
	9199	General Government, Nec
	9223	Correctional Institutions
	9711	National Security
4-02-004	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General</i>	
	1311	Crude Petroleum And Natural Gas
	1521	Single-family Housing Construction
	1799	Special Trade Contractors, Nec
	2353	Hats, Caps, And Millinery
	2411	Logging
	2421	Sawmills And Planing Mills, General
	2426	Hardwood Dimension & Flooring Mills
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2452	Prefabricated Wood Buildings
	2491	Wood Preserving
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture
	2517	Wood Tv And Radio Cabinets
	2519	Household Furniture, Nec
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2599	Furniture And Fixtures, Nec
	2655	Fiber Cans, Drums & Similar Products
	2671	Paper Coated & Laminated, Packaging
	2732	Book Printing
	2741	Miscellaneous Publishing
	2752	Commercial Printing, Lithographic
	2754	Commercial Printing, Gravure
	2759	Commercial Printing, Nec
	2771	Greeting Cards
	2821	Plastics Materials And Resins
	2834	Pharmaceutical Preparations
	2851	Paints And Allied Products
	2891	Adhesives And Sealants
	2911	Petroleum Refining



## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3053	Gaskets, Packing And Sealing Devices
	3069	Fabricated Rubber Products, Nec
	3085	Plastics Bottles
	3086	Plastics Foam Products
	3087	Custom Compound Purchased Resins
	3088	Plastics Plumbing Fixtures
	3089	Plastics Products, Nec
	3111	Leather Tanning And Finishing
	3143	Men's Footwear, Except Athletic
	3211	Flat Glass
	3261	Vitreous Plumbing Fixtures
	3269	Pottery Products, Nec
	3281	Cut Stone And Stone Products
	3291	Abrasive Products
	3312	Blast Furnaces And Steel Mills
	3321	Gray And Ductile Iron Foundries
	3325	Steel Foundries, Nec
	3365	Aluminum Foundries
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3423	Hand And Edge Tools, Nec
	3429	Hardware, Nec
	3433	Heating Equipment, Except Electric
	3441	Fabricated Structural Metal
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3446	Architectural Metal Work
	3452	Bolts, Nuts, Rivets, And Washers
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3482	Small Arms Ammunition
	3484	Small Arms
	3494	Valves And Pipe Fittings, Nec
	3496	Misc. Fabricated Wire Products
	3497	Metal Foil And Leaf
	3499	Fabricated Metal Products, Nec
	3519	Internal Combustion Engines, Nec
	3531	Construction Machinery
	3532	Mining Machinery
	3534	Elevators And Moving Stairways
	3535	Conveyors And Conveying Equipment
	3541	Machine Tools, Metal Cutting Types
	3544	Special Dies, Tools, Jigs & Fixtures
	3545	Machine Tool Accessories
	3548	Welding Apparatus
	3549	Metalworking Machinery, Nec
	3553	Woodworking Machinery
	3554	Paper Industries Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3562	Ball And Roller Bearings
	3566	Speed Changers, Drives, And Gears
	3569	General Industrial Machinery, Nec
	3585	Refrigeration And Heating Equipment
	3589	Service Industry Machinery, Nec
	3592	Carburetors, Pistons, Rings, Valves
	3599	Industrial Machinery, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3632	Household Refrigerators And Freezers
	3634	Electric Housewares And Fans
	3641	Electric Lamps
	3645	Residential Lighting Fixtures
	3647	Vehicular Lighting Equipment
	3648	Lighting Equipment, Nec
	3651	Household Audio And Video Equipment
	3661	Telephone And Telegraph Apparatus
	3663	Radio & TV Communications Equipment
	3671	Electron Tubes
	3679	Electronic Components, Nec
	3694	Engine Electrical Equipment
	3711	Motor Vehicles And Car Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3792	Travel Trailers And Campers
	3795	Tanks And Tank Components
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3842	Surgical Appliances And Supplies
	3844	X-ray Apparatus And Tubes
	3861	Photographic Equipment And Supplies
	3873	Watches, Clocks, Watchcases & Parts
	3911	Jewelry, Precious Metal
	3931	Musical Instruments
	3949	Sporting And Athletic Goods, Nec
	3952	Lead Pencils And Art Goods
	3961	Costume Jewelry
	3991	Brooms And Brushes
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3999	Manufacturing Industries, Nec
	4173	Bus Terminal And Service Facilities
	4213	Trucking, Except Local
	4311	U.S. Postal Service
	4512	Air Transportation, Scheduled
	4581	Airports, Flying Fields, & Services
	4931	Electric And Other Services Combined
	4941	Water Supply
	4961	Steam And Air-conditioning Supply
	5021	Furniture
	5046	Commercial Equipment, Nec
	5092	Toys And Hobby Goods And Supplies
	5211	Lumber And Other Building Materials
	5231	Paint, Glass, And Wallpaper Stores
	5511	New And Used Car Dealers
	5561	Recreational Vehicle Dealers
	5712	Furniture Stores
	5912	Drug Stores And Proprietary Stores
	5932	Used Merchandise Stores
	5943	Stationery Stores
	6553	Cemetery Subdividers And Developers

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	7011	Hotels And Motels
	7216	Drycleaning Plants, Except Rug
	7261	Funeral Service And Crematories
	7312	Outdoor Advertising Services
	7319	Advertising, Nec
	7389	Business Services, Nec
	7514	Passenger Car Rental
	7532	Top & Body Repair & Paint Shops
	7539	Automotive Repair Shops, Nec
	7542	Carwashes
	7641	Reupholstery And Furniture Repair
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	8062	General Medical & Surgical Hospitals
	8063	Psychiatric Hospitals
	8069	Specialty Hospitals Exc. Psychiatric
	8221	Colleges And Universities
	8222	Junior Colleges
	8249	Vocational Schools, Nec
	8322	Individual And Family Services
	8733	Noncommercial Research Organizations
	8999	Services, Nec
	9199	General Government, Nec
	9223	Correctional Institutions
	9711	National Security
4-02-005	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General</i>	
	1221	Bituminous Coal And Lignite Surface
	1311	Crude Petroleum And Natural Gas
	1531	Operative Builders
	1611	Highway And Street Construction
	1721	Painting And Paper Hanging
	1791	Structural Steel Erection
	1799	Special Trade Contractors, Nec
	2033	Canned Fruits And Vegetables
	2052	Cookies And Crackers
	2111	Cigarettes
	2421	Sawmills And Planing Mills, General
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2441	Nailed Wood Boxes And Shook
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2599	Furniture And Fixtures, Nec
	2621	Paper Mills
	2752	Commercial Printing, Lithographic
	2812	Alkalies And Chlorine
	2813	Industrial Gases
	2821	Plastics Materials And Resins
	2824	Organic Fibers, Noncellulosic
	2834	Pharmaceutical Preparations

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2851	Paints And Allied Products
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2891	Adhesives And Sealants
	2892	Explosives
	2899	Chemical Preparations, Nec
	2911	Petroleum Refining
	3069	Fabricated Rubber Products, Nec
	3087	Custom Compound Purchased Resins
	3089	Plastics Products, Nec
	3221	Glass Containers
	3229	Pressed And Blown Glass, Nec
	3231	Products Of Purchased Glass
	3264	Porcelain Electrical Supplies
	3269	Pottery Products, Nec
	3272	Concrete Products, Nec
	3281	Cut Stone And Stone Products
	3312	Blast Furnaces And Steel Mills
	3315	Steel Wire And Related Products
	3316	Cold Finishing Of Steel Shapes
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3341	Secondary Nonferrous Metals
	3354	Aluminum Extruded Products
	3355	Aluminum Rolling And Drawing, Nec
	3356	Nonferrous Rolling And Drawing, Nec
	3357	Nonferrous Wiredrawing & Insulating
	3365	Aluminum Foundries
	3366	Copper Foundries
	3399	Primary Metal Products, Nec
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3423	Hand And Edge Tools, Nec
	3429	Hardware, Nec
	3431	Metal Sanitary Ware
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3446	Architectural Metal Work
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3452	Bolts, Nuts, Rivets, And Washers
	3462	Iron And Steel Forgings
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3489	Ordnance And Accessories, Nec
	3494	Valves And Pipe Fittings, Nec
	3495	Wire Springs
	3496	Misc. Fabricated Wire Products
	3498	Fabricated Pipe And Fittings
	3499	Fabricated Metal Products, Nec
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3533	Oil And Gas Field Machinery
	3535	Conveyors And Conveying Equipment
	3536	Hoists, Cranes, And Monorails
	3537	Industrial Trucks And Tractors
	3542	Machine Tools, Metal Forming Types
	3545	Machine Tool Accessories
	3549	Metalworking Machinery, Nec
	3552	Textile Machinery
	3554	Paper Industries Machinery
	3555	Printing Trades Machinery
	3556	Food Products Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3563	Air And Gas Compressors
	3564	Blowers And Fans
	3566	Speed Changers, Drives, And Gears
	3567	Industrial Furnaces And Ovens
	3569	General Industrial Machinery, Nec
	3579	Office Machines, Nec
	3585	Refrigeration And Heating Equipment
	3586	Measuring And Dispensing Pumps
	3589	Service Industry Machinery, Nec
	3596	Scales And Balances, Exc. Laboratory
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3625	Relays And Industrial Controls
	3629	Electrical Industrial Apparatus, Nec
	3631	Household Cooking Equipment
	3632	Household Refrigerators And Freezers
	3633	Household Laundry Equipment
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3641	Electric Lamps
	3643	Current-carrying Wiring Devices
	3644	Noncurrent-carrying Wiring Devices
	3645	Residential Lighting Fixtures
	3646	Commercial Lighting Fixtures
	3648	Lighting Equipment, Nec
	3663	Radio & TV Communications Equipment
	3669	Communications Equipment, Nec
	3671	Electron Tubes
	3674	Semiconductors And Related Devices
	3676	Electronic Resistors
	3679	Electronic Components, Nec
	3694	Engine Electrical Equipment
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3761	Guided Missiles And Space Vehicles
	3764	Space Propulsion Units And Parts

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3792	Travel Trailers And Campers
	3795	Tanks And Tank Components
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3822	Environmental Controls
	3823	Process Control Instruments
	3824	Fluid Meters And Counting Devices
	3841	Surgical And Medical Instruments
	3842	Surgical Appliances And Supplies
	3843	Dental Equipment And Supplies
	3844	X-ray Apparatus And Tubes
	3845	Electromedical Equipment
	3851	Ophthalmic Goods
	3861	Photographic Equipment And Supplies
	3949	Sporting And Athletic Goods, Nec
	3991	Brooms And Brushes
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3996	Hard Surface Floor Coverings, Nec
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4013	Switching And Terminal Services
	4111	Local And Suburban Transit
	4173	Bus Terminal And Service Facilities
	4212	Local Trucking, Without Storage
	4213	Trucking, Except Local
	4231	Trucking Terminal Facilities
	4512	Air Transportation, Scheduled
	4581	Airports, Flying Fields, & Services
	4613	Refined Petroleum Pipelines
	4741	Rental Of Railroad Cars
	4911	Electric Services
	4923	Gas Transmission And Distribution
	4931	Electric And Other Services Combined
	4941	Water Supply
	4953	Refuse Systems
	4961	Steam And Air-conditioning Supply
	5012	Automobiles And Other Motor Vehicles
	5015	Motor Vehicle Parts, Used
	5082	Construction And Mining Machinery
	5085	Industrial Supplies
	5093	Scrap And Waste Materials
	5113	Industrial & Personal Service Paper
	5169	Chemicals & Allied Products, Nec
	5171	Petroleum Bulk Stations & Terminals
	5211	Lumber And Other Building Materials
	5231	Paint, Glass, And Wallpaper Stores
	5511	New And Used Car Dealers
	5521	Used Car Dealers
	5541	Gasoline Service Stations
	5712	Furniture Stores
	5943	Stationery Stores
	6531	Real Estate Agents And Managers
	7011	Hotels And Motels
	7216	Drycleaning Plants, Except Rug
	7312	Outdoor Advertising Services
	7389	Business Services, Nec
	7514	Passenger Car Rental

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	7521	Automobile Parking
	7532	Top & Body Repair & Paint Shops
	7538	General Automotive Repair Shops
	7549	Automotive Services, Nec
	7629	Electrical Repair Shops, Nec
	7641	Reupholstery And Furniture Repair
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	7999	Amusement And Recreation, Nec
	8059	Nursing And Personal Care, Nec
	8062	General Medical & Surgical Hospitals
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities
	8249	Vocational Schools, Nec
	8322	Individual And Family Services
	8731	Commercial Physical Research
	8733	Noncommercial Research Organizations
	8734	Testing Laboratories
	8999	Services, Nec
	9199	General Government, Nec
	9223	Correctional Institutions
	9611	Admin. Of General Economic Programs
	9711	National Security
4-02-006	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General</i>	
	1221	Bituminous Coal And Lignite Surface
	1311	Crude Petroleum And Natural Gas
	1531	Operative Builders
	1721	Painting And Paper Hanging
	1791	Structural Steel Erection
	1799	Special Trade Contractors, Nec
	2052	Cookies And Crackers
	2426	Hardwood Dimension & Flooring Mills
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture
	2517	Wood Tv And Radio Cabinets
	2519	Household Furniture, Nec
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2599	Furniture And Fixtures, Nec
	2631	Paperboard Mills
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2752	Commercial Printing, Lithographic
	2754	Commercial Printing, Gravure
	2771	Greeting Cards
	2824	Organic Fibers, Noncellulosic
	2834	Pharmaceutical Preparations
	2851	Paints And Allied Products

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2891	Adhesives And Sealants
	2899	Chemical Preparations, Nec
	2911	Petroleum Refining
	3011	Tires And Inner Tubes
	3053	Gaskets, Packing And Sealing Devices
	3069	Fabricated Rubber Products, Nec
	3085	Plastics Bottles
	3089	Plastics Products, Nec
	3143	Men's Footwear, Except Athletic
	3231	Products Of Purchased Glass
	3272	Concrete Products, Nec
	3275	Gypsum Products
	3292	Asbestos Products
	3312	Blast Furnaces And Steel Mills
	3321	Gray And Ductile Iron Foundries
	3325	Steel Foundries, Nec
	3341	Secondary Nonferrous Metals
	3354	Aluminum Extruded Products
	3356	Nonferrous Rolling And Drawing, Nec
	3366	Copper Foundries
	3369	Nonferrous Foundries, Nec
	3411	Metal Cans
	3423	Hand And Edge Tools, Nec
	3429	Hardware, Nec
	3431	Metal Sanitary Ware
	3432	Plumbing Fixture Fittings And Trim
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3446	Architectural Metal Work
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3452	Bolts, Nuts, Rivets, And Washers
	3465	Automotive Stampings
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3484	Small Arms
	3489	Ordnance And Accessories, Nec
	3494	Valves And Pipe Fittings, Nec
	3496	Misc. Fabricated Wire Products
	3497	Metal Foil And Leaf
	3499	Fabricated Metal Products, Nec
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery
	3533	Oil And Gas Field Machinery
	3535	Conveyors And Conveying Equipment
	3536	Hoists, Cranes, And Monorails
	3537	Industrial Trucks And Tractors
	3542	Machine Tools, Metal Forming Types
	3545	Machine Tool Accessories
	3548	Welding Apparatus
	3553	Woodworking Machinery
	3556	Food Products Machinery



## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3563	Air And Gas Compressors
	3566	Speed Changers, Drives, And Gears
	3567	Industrial Furnaces And Ovens
	3569	General Industrial Machinery, Nec
	3581	Automatic Vending Machines
	3585	Refrigeration And Heating Equipment
	3589	Service Industry Machinery, Nec
	3596	Scales And Balances, Exc. Laboratory
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3624	Carbon And Graphite Products
	3632	Household Refrigerators And Freezers
	3633	Household Laundry Equipment
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3645	Residential Lighting Fixtures
	3663	Radio & TV Communications Equipment
	3674	Semiconductors And Related Devices
	3675	Electronic Capacitors
	3679	Electronic Components, Nec
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3716	Motor Homes
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3764	Space Propulsion Units And Parts
	3792	Travel Trailers And Campers
	3795	Tanks And Tank Components
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3826	Analytical Instruments
	3842	Surgical Appliances And Supplies
	3844	X-ray Apparatus And Tubes
	3845	Electromedical Equipment
	3861	Photographic Equipment And Supplies
	3949	Sporting And Athletic Goods, Nec
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4013	Switching And Terminal Services
	4111	Local And Suburban Transit
	4173	Bus Terminal And Service Facilities
	4231	Trucking Terminal Facilities
	4311	U.S. Postal Service
	4512	Air Transportation, Scheduled
	4581	Airports, Flying Fields, & Services
	4789	Transportation Services, Nec
	4911	Electric Services

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	4931	Electric And Other Services Combined
	4953	Refuse Systems
	4961	Steam And Air-conditioning Supply
	5012	Automobiles And Other Motor Vehicles
	5021	Furniture
	5051	Metals Service Centers And Offices
	5113	Industrial & Personal Service Paper
	5171	Petroleum Bulk Stations & Terminals
	5211	Lumber And Other Building Materials
	5511	New And Used Car Dealers
	5521	Used Car Dealers
	5541	Gasoline Service Stations
	5599	Automotive Dealers, Nec
	5712	Furniture Stores
	5932	Used Merchandise Stores
	6553	Cemetery Subdividers And Developers
	7216	Drycleaning Plants, Except Rug
	7389	Business Services, Nec
	7514	Passenger Car Rental
	7521	Automobile Parking
	7532	Top & Body Repair & Paint Shops
	7538	General Automotive Repair Shops
	7539	Automotive Repair Shops, Nec
	7629	Electrical Repair Shops, Nec
	7641	Reupholstery And Furniture Repair
	7694	Armature Rewinding Shops
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	7999	Amusement And Recreation, Nec
	8062	General Medical & Surgical Hospitals
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities
	8322	Individual And Family Services
	8733	Noncommercial Research Organizations
	9111	Executive Offices
	9199	General Government, Nec
	9223	Correctional Institutions
	9711	National Security
4-02-007	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Surface Coating Application - General</i>	
	1021	Copper Ores
	1311	Crude Petroleum And Natural Gas
	1799	Special Trade Contractors, Nec
	2047	Dog And Cat Food
	2241	Narrow Fabric Mills
	2261	Finishing Plants, Cotton
	2281	Yarn Spinning Mills
	2295	Coated Fabrics, Not Rubberized
	2296	Tire Cord And Fabrics
	2299	Textile Goods, Nec
	2396	Automotive And Apparel Trimmings
	2426	Hardwood Dimension & Flooring Mills
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2436	Softwood Veneer And Plywood
	2451	Mobile Homes
	2493	Reconstituted Wood Products

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture
	2515	Mattresses And Bedsprings
	2517	Wood Tv And Radio Cabinets
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2599	Furniture And Fixtures, Nec
	2621	Paper Mills
	2631	Paperboard Mills
	2653	Corrugated And Solid Fiber Boxes
	2655	Fiber Cans, Drums & Similar Products
	2656	Sanitary Food Containers
	2657	Folding Paperboard Boxes
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2673	Bags: Plastics, Laminated, & Coated
	2674	Bags: Uncoated Paper & Multiwall
	2675	Die-cut Paper And Board
	2676	Sanitary Paper Products
	2677	Envelopes
	2679	Converted Paper Products, Nec
	2711	Newspapers
	2721	Periodicals
	2732	Book Printing
	2752	Commercial Printing, Lithographic
	2754	Commercial Printing, Gravure
	2759	Commercial Printing, Nec
	2761	Manifold Business Forms
	2771	Greeting Cards
	2782	Blankbooks And Looseleaf Binders
	2816	Inorganic Pigments
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2822	Synthetic Rubber
	2823	Cellulosic Manmade Fibers
	2824	Organic Fibers, Noncellulosic
	2834	Pharmaceutical Preparations
	2841	Soap And Other Detergents
	2842	Polishes And Sanitation Goods
	2851	Paints And Allied Products
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2891	Adhesives And Sealants
	2911	Petroleum Refining
	2952	Asphalt Felts And Coatings
	3011	Tires And Inner Tubes
	3021	Rubber And Plastics Footwear
	3052	Rubber & Plastics Hose & Belting
	3053	Gaskets, Packing And Sealing Devices
	3061	Mechanical Rubber Goods
	3069	Fabricated Rubber Products, Nec
	3081	Unsupported Plastics Film & Sheet
	3082	Unsupported Plastics Profile Shapes

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3085	Plastics Bottles
	3086	Plastics Foam Products
	3087	Custom Compound Purchased Resins
	3088	Plastics Plumbing Fixtures
	3089	Plastics Products, Nec
	3111	Leather Tanning And Finishing
	3131	Footwear Cut Stock
	3143	Men's Footwear, Except Athletic
	3144	Women's Footwear, Except Athletic
	3149	Footwear, Except Rubber, Nec
	3172	Personal Leather Goods, Nec
	3221	Glass Containers
	3231	Products Of Purchased Glass
	3291	Abrasive Products
	3292	Asbestos Products
	3296	Mineral Wool
	3315	Steel Wire And Related Products
	3316	Cold Finishing Of Steel Shapes
	3321	Gray And Ductile Iron Foundries
	3354	Aluminum Extruded Products
	3357	Nonferrous Wiredrawing & Insulating
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3421	Cutlery
	3423	Hand And Edge Tools, Nec
	3429	Hardware, Nec
	3433	Heating Equipment, Except Electric
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3446	Architectural Metal Work
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3452	Bolts, Nuts, Rivets, And Washers
	3465	Automotive Stampings
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3489	Ordinance And Accessories, Nec
	3491	Industrial Valves
	3499	Fabricated Metal Products, Nec
	3523	Farm Machinery And Equipment
	3531	Construction Machinery
	3533	Oil And Gas Field Machinery
	3534	Elevators And Moving Stairways
	3541	Machine Tools, Metal Cutting Types
	3555	Printing Trades Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3564	Blowers And Fans
	3568	Power Transmission Equipment, Nec
	3569	General Industrial Machinery, Nec
	3577	Computer Peripheral Equipment, Nec
	3585	Refrigeration And Heating Equipment
	3589	Service Industry Machinery, Nec
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3621	Motors And Generators
	3625	Relays And Industrial Controls
	3633	Household Laundry Equipment
	3641	Electric Lamps
	3643	Current-carrying Wiring Devices
	3645	Residential Lighting Fixtures
	3651	Household Audio And Video Equipment
	3663	Radio & TV Communications Equipment
	3674	Semiconductors And Related Devices
	3675	Electronic Capacitors
	3679	Electronic Components, Nec
	3694	Engine Electrical Equipment
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3716	Motor Homes
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3751	Motorcycles, Bicycles, And Parts
	3761	Guided Missiles And Space Vehicles
	3792	Travel Trailers And Campers
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3822	Environmental Controls
	3841	Surgical And Medical Instruments
	3842	Surgical Appliances And Supplies
	3844	X-ray Apparatus And Tubes
	3861	Photographic Equipment And Supplies
	3931	Musical Instruments
	3949	Sporting And Athletic Goods, Nec
	3952	Lead Pencils And Art Goods
	3991	Brooms And Brushes
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3996	Hard Surface Floor Coverings, Nec
	3999	Manufacturing Industries, Nec
	4581	Airports, Flying Fields, & Services
	4931	Electric And Other Services Combined
	5087	Service Establishment Equipment
	5113	Industrial & Personal Service Paper
	5171	Petroleum Bulk Stations & Terminals
	5511	New And Used Car Dealers
	5561	Recreational Vehicle Dealers
	5712	Furniture Stores
	5912	Drug Stores And Proprietary Stores
	6321	Accident And Health Insurance
	7389	Business Services, Nec
	7532	Top & Body Repair & Paint Shops
	7534	Tire Retreading And Repair Shops
	7538	General Automotive Repair Shops
	8062	General Medical & Surgical Hospitals
	8734	Testing Laboratories
	9199	General Government, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	9223	Correctional Institutions
	9711	National Security
4-02-009	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Thinning Solvents - General</i>	
	0181	Ornamental Nursery Products
	0723	Crop Preparation Services For Market
	1221	Bituminous Coal And Lignite Surface
	1311	Crude Petroleum And Natural Gas
	1382	Oil And Gas Exploration Services
	1389	Oil And Gas Field Services, Nec
	1521	Single-family Housing Construction
	1531	Operative Builders
	1611	Highway And Street Construction
	1629	Heavy Construction, Nec
	1721	Painting And Paper Hanging
	1761	Roofing, Siding, And Sheet Metal Work
	1791	Structural Steel Erection
	1799	Special Trade Contractors, Nec
	2011	Meat Packing Plants
	2033	Canned Fruits And Vegetables
	2041	Flour And Other Grain Mill Products
	2051	Bread, Cake, And Related Products
	2052	Cookies And Crackers
	2075	Soybean Oil Mills
	2076	Vegetable Oil Mills, Nec
	2082	Malt Beverages
	2085	Distilled And Blended Liquors
	2096	Potato Chips And Similar Snacks
	2211	Broadwoven Fabric Mills, Cotton
	2221	Broadwoven Fabric Mills, Manmade
	2231	Broadwoven Fabric Mills, Wool
	2253	Knit Outerwear Mills
	2258	Lace & Warp Knit Fabric Mills
	2261	Finishing Plants, Cotton
	2262	Finishing Plants, Manmade
	2269	Finishing Plants, Nec
	2273	Carpets And Rugs
	2281	Yarn Spinning Mills
	2282	Throwing And Winding Mills
	2284	Thread Mills
	2295	Coated Fabrics, Not Rubberized
	2296	Tire Cord And Fabrics
	2297	Nonwoven Fabrics
	2298	Cordage And Twine
	2299	Textile Goods, Nec
	2329	Men's And Boys' Clothing, Nec
	2392	Housefurnishings, Nec
	2394	Canvas And Related Products
	2396	Automotive And Apparel Trimmings
	2399	Fabricated Textile Products, Nec
	2421	Sawmills And Planing Mills, General
	2426	Hardwood Dimension & Flooring Mills
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2436	Softwood Veneer And Plywood
	2439	Structural Wood Members, Nec
	2441	Nailed Wood Boxes And Shook

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2451	Mobile Homes
	2452	Prefabricated Wood Buildings
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture
	2517	Wood Tv And Radio Cabinets
	2519	Household Furniture, Nec
	2521	Wood Office Furniture
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2599	Furniture And Fixtures, Nec
	2611	Pulp Mills
	2621	Paper Mills
	2631	Paperboard Mills
	2653	Corrugated And Solid Fiber Boxes
	2655	Fiber Cans, Drums & Similar Products
	2656	Sanitary Food Containers
	2657	Folding Paperboard Boxes
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2673	Bags: Plastics, Laminated, & Coated
	2677	Envelopes
	2679	Converted Paper Products, Nec
	2711	Newspapers
	2732	Book Printing
	2752	Commercial Printing, Lithographic
	2754	Commercial Printing, Gravure
	2759	Commercial Printing, Nec
	2761	Manifold Business Forms
	2771	Greeting Cards
	2782	Blankbooks And Looseleaf Binders
	2789	Bookbinding And Related Work
	2796	Platemaking Services
	2812	Alkalies And Chlorine
	2813	Industrial Gases
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2822	Synthetic Rubber
	2823	Cellulosic Manmade Fibers
	2824	Organic Fibers, Noncellulosic
	2833	Medicinals And Botanicals
	2834	Pharmaceutical Preparations
	2841	Soap And Other Detergents
	2842	Polishes And Sanitation Goods
	2843	Surface Active Agents
	2844	Toilet Preparations
	2851	Paints And Allied Products
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2891	Adhesives And Sealants
	2892	Explosives
	2893	Printing Ink
	2899	Chemical Preparations, Nec
	2911	Petroleum Refining

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2951	Asphalt Paving Mixtures And Blocks
	2992	Lubricating Oils And Greases
	3011	Tires And Inner Tubes
	3052	Rubber & Plastics Hose & Belting
	3053	Gaskets, Packing And Sealing Devices
	3061	Mechanical Rubber Goods
	3069	Fabricated Rubber Products, Nec
	3081	Unsupported Plastics Film & Sheet
	3082	Unsupported Plastics Profile Shapes
	3083	Laminated Plastics Plate & Sheet
	3084	Plastics Pipe
	3085	Plastics Bottles
	3086	Plastics Foam Products
	3087	Custom Compound Purchased Resins
	3088	Plastics Plumbing Fixtures
	3089	Plastics Products, Nec
	3111	Leather Tanning And Finishing
	3143	Men's Footwear, Except Athletic
	3144	Women's Footwear, Except Athletic
	3221	Glass Containers
	3229	Pressed And Blown Glass, Nec
	3231	Products Of Purchased Glass
	3251	Brick And Structural Clay Tile
	3255	Clay Refractories
	3261	Vitreous Plumbing Fixtures
	3264	Porcelain Electrical Supplies
	3269	Pottery Products, Nec
	3272	Concrete Products, Nec
	3275	Gypsum Products
	3281	Cut Stone And Stone Products
	3291	Abrasive Products
	3292	Asbestos Products
	3295	Minerals, Ground Or Treated
	3296	Mineral Wool
	3299	Nonmetallic Mineral Products, Nec
	3312	Blast Furnaces And Steel Mills
	3315	Steel Wire And Related Products
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3324	Steel Investment Foundries
	3325	Steel Foundries, Nec
	3331	Primary Copper
	3339	Primary Nonferrous Metals, Nec
	3341	Secondary Nonferrous Metals
	3351	Copper Rolling And Drawing
	3353	Aluminum Sheet, Plate, And Foil
	3354	Aluminum Extruded Products
	3356	Nonferrous Rolling And Drawing, Nec
	3357	Nonferrous Wiredrawing & Insulating
	3363	Aluminum Die-castings
	3365	Aluminum Foundries
	3366	Copper Foundries
	3398	Metal Heat Treating
	3399	Primary Metal Products, Nec
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3421	Cutlery
	3423	Hand And Edge Tools, Nec



## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3429	Hardware, Nec
	3431	Metal Sanitary Ware
	3432	Plumbing Fixture Fittings And Trim
	3433	Heating Equipment, Except Electric
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3446	Architectural Metal Work
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3452	Bolts, Nuts, Rivets, And Washers
	3462	Iron And Steel Forgings
	3465	Automotive Stampings
	3466	Crowns And Closures
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3482	Small Arms Ammunition
	3483	Ammunition, Exc. For Small Arms, Nec
	3484	Small Arms
	3489	Ordnance And Accessories, Nec
	3491	Industrial Valves
	3494	Valves And Pipe Fittings, Nec
	3495	Wire Springs
	3496	Misc. Fabricated Wire Products
	3497	Metal Foil And Leaf
	3498	Fabricated Pipe And Fittings
	3499	Fabricated Metal Products, Nec
	3511	Turbines And Turbine Generator Sets
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery
	3533	Oil And Gas Field Machinery
	3534	Elevators And Moving Stairways
	3535	Conveyors And Conveying Equipment
	3536	Hoists, Cranes, And Monorails
	3537	Industrial Trucks And Tractors
	3541	Machine Tools, Metal Cutting Types
	3542	Machine Tools, Metal Forming Types
	3545	Machine Tool Accessories
	3548	Welding Apparatus
	3549	Metalworking Machinery, Nec
	3552	Textile Machinery
	3553	Woodworking Machinery
	3554	Paper Industries Machinery
	3555	Printing Trades Machinery
	3556	Food Products Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3562	Ball And Roller Bearings
	3563	Air And Gas Compressors
	3564	Blowers And Fans
	3566	Speed Changers, Drives, And Gears
	3567	Industrial Furnaces And Ovens
	3569	General Industrial Machinery, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3571	Electronic Computers
	3572	Computer Storage Devices
	3577	Computer Peripheral Equipment, Nec
	3579	Office Machines, Nec
	3581	Automatic Vending Machines
	3582	Commercial Laundry Equipment
	3585	Refrigeration And Heating Equipment
	3586	Measuring And Dispensing Pumps
	3589	Service Industry Machinery, Nec
	3592	Carburetors, Pistons, Rings, Valves
	3596	Scales And Balances, Exc. Laboratory
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3624	Carbon And Graphite Products
	3625	Relays And Industrial Controls
	3629	Electrical Industrial Apparatus, Nec
	3632	Household Refrigerators And Freezers
	3633	Household Laundry Equipment
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3641	Electric Lamps
	3643	Current-carrying Wiring Devices
	3644	Noncurrent-carrying Wiring Devices
	3645	Residential Lighting Fixtures
	3646	Commercial Lighting Fixtures
	3648	Lighting Equipment, Nec
	3651	Household Audio And Video Equipment
	3661	Telephone And Telegraph Apparatus
	3663	Radio & TV Communications Equipment
	3671	Electron Tubes
	3674	Semiconductors And Related Devices
	3675	Electronic Capacitors
	3676	Electronic Resistors
	3677	Electronic Coils And Transformers
	3678	Electronic Connectors
	3679	Electronic Components, Nec
	3691	Storage Batteries
	3694	Engine Electrical Equipment
	3695	Magnetic And Optical Recording Media
	3699	Electrical Equipment & Supplies, Nec
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3716	Motor Homes
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3751	Motorcycles, Bicycles, And Parts
	3761	Guided Missiles And Space Vehicles
	3764	Space Propulsion Units And Parts
	3769	Space Vehicle Equipment, Nec
	3792	Travel Trailers And Campers
	3795	Tanks And Tank Components

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3822	Environmental Controls
	3823	Process Control Instruments
	3825	Instruments To Measure Electricity
	3826	Analytical Instruments
	3827	Optical Instruments And Lenses
	3829	Measuring & Controlling Devices, Nec
	3841	Surgical And Medical Instruments
	3842	Surgical Appliances And Supplies
	3843	Dental Equipment And Supplies
	3844	X-ray Apparatus And Tubes
	3845	Electromedical Equipment
	3861	Photographic Equipment And Supplies
	3873	Watches, Clocks, Watchcases & Parts
	3911	Jewelry, Precious Metal
	3931	Musical Instruments
	3944	Games, Toys, And Children's Vehicles
	3949	Sporting And Athletic Goods, Nec
	3951	Pens And Mechanical Pencils
	3952	Lead Pencils And Art Goods
	3955	Carbon Paper And Inked Ribbons
	3961	Costume Jewelry
	3991	Brooms And Brushes
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4013	Switching And Terminal Services
	4111	Local And Suburban Transit
	4173	Bus Terminal And Service Facilities
	4212	Local Trucking, Without Storage
	4213	Trucking, Except Local
	4215	Courier Services, Except By Air
	4226	Special Warehousing And Storage, Nec
	4311	U.S. Postal Service
	4449	Water Transportation Of Freight, Nec
	4493	Marinas
	4512	Air Transportation, Scheduled
	4581	Airports, Flying Fields, & Services
	4613	Refined Petroleum Pipelines
	4741	Rental Of Railroad Cars
	4789	Transportation Services, Nec
	4833	Television Broadcasting Stations
	4911	Electric Services
	4923	Gas Transmission And Distribution
	4931	Electric And Other Services Combined
	4932	Gas And Other Services Combined
	4939	Combination Utilities, Nec
	4941	Water Supply
	4953	Refuse Systems
	4959	Sanitary Services, Nec
	5012	Automobiles And Other Motor Vehicles
	5015	Motor Vehicle Parts, Used
	5023	Homefurnishings
	5031	Lumber, Plywood, And Millwork
	5033	Roofing, Siding, & Insulation
	5039	Construction Materials, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	5045	Computers, Peripherals & Software
	5046	Commercial Equipment, Nec
	5051	Metals Service Centers And Offices
	5065	Electronic Parts And Equipment
	5082	Construction And Mining Machinery
	5083	Farm And Garden Machinery
	5084	Industrial Machinery And Equipment
	5085	Industrial Supplies
	5088	Transportation Equipment & Supplies
	5092	Toys And Hobby Goods And Supplies
	5093	Scrap And Waste Materials
	5113	Industrial & Personal Service Paper
	5122	Drugs, Proprietaries, And Sundries
	5169	Chemicals & Allied Products, Nec
	5171	Petroleum Bulk Stations & Terminals
	5172	Petroleum Products, Nec
	5211	Lumber And Other Building Materials
	5231	Paint, Glass, And Wallpaper Stores
	5411	Grocery Stores
	5511	New And Used Car Dealers
	5521	Used Car Dealers
	5541	Gasoline Service Stations
	5599	Automotive Dealers, Nec
	5712	Furniture Stores
	5912	Drug Stores And Proprietary Stores
	5932	Used Merchandise Stores
	5943	Stationery Stores
	6512	Nonresidential Building Operators
	7011	Hotels And Motels
	7216	Drycleaning Plants, Except Rug
	7261	Funeral Service And Crematories
	7312	Outdoor Advertising Services
	7359	Equipment Rental & Leasing, Nec
	7373	Computer Integrated Systems Design
	7389	Business Services, Nec
	7514	Passenger Car Rental
	7519	Utility Trailer Rental
	7532	Top & Body Repair & Paint Shops
	7534	Tire Retreading And Repair Shops
	7538	General Automotive Repair Shops
	7539	Automotive Repair Shops, Nec
	7542	Carwashes
	7629	Electrical Repair Shops, Nec
	7641	Reupholstery And Furniture Repair
	7692	Welding Repair
	7694	Armature Rewinding Shops
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	7819	Services Allied To Motion Pictures
	7996	Amusement Parks
	7999	Amusement And Recreation, Nec
	8011	Offices & Clinics Of Medical Doctors
	8059	Nursing And Personal Care, Nec
	8062	General Medical & Surgical Hospitals
	8063	Psychiatric Hospitals
	8069	Specialty Hospitals Exc. Psychiatric
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	8222	Junior Colleges
	8249	Vocational Schools, Nec
	8711	Engineering Services
	8731	Commercial Physical Research
	8734	Testing Laboratories
	8999	Services, Nec
	9111	Executive Offices
	9199	General Government, Nec
	9223	Correctional Institutions
	9511	Air, Water, & Solid Waste Management
	9611	Admin. Of General Economic Programs
	9621	Regulation, Admin. Of Transportation
	9661	Space Research And Technology
	9711	National Security
4-02-010	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Coating Oven Heater</i>	
	0182	Food Crops Grown Under Cover
	1311	Crude Petroleum And Natural Gas
	1711	Plumbing, Heating, Air-conditioning
	1721	Painting And Paper Hanging
	1799	Special Trade Contractors, Nec
	2033	Canned Fruits And Vegetables
	2035	Pickles, Sauces, And Salad Dressings
	2041	Flour And Other Grain Mill Products
	2052	Cookies And Crackers
	2091	Canned And Cured Fish And Seafoods
	2096	Potato Chips And Similar Snacks
	2099	Food Preparations, Nec
	2211	Broadwoven Fabric Mills, Cotton
	2241	Narrow Fabric Mills
	2251	Women's Hosiery, Except Socks
	2253	Knit Outerwear Mills
	2261	Finishing Plants, Cotton
	2262	Finishing Plants, Manmade
	2269	Finishing Plants, Nec
	2273	Carpets And Rugs
	2295	Coated Fabrics, Not Rubberized
	2296	Tire Cord And Fabrics
	2298	Cordage And Twine
	2299	Textile Goods, Nec
	2329	Men's And Boys' Clothing, Nec
	2392	Housefurnishings, Nec
	2396	Automotive And Apparel Trimmings
	2399	Fabricated Textile Products, Nec
	2426	Hardwood Dimension & Flooring Mills
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2435	Hardwood Veneer And Plywood
	2451	Mobile Homes
	2493	Reconstituted Wood Products
	2499	Wood Products, Nec
	2511	Wood Household Furniture
	2512	Upholstered Household Furniture
	2514	Metal Household Furniture
	2515	Mattresses And Bedsprings
	2517	Wood Tv And Radio Cabinets
	2519	Household Furniture, Nec
	2521	Wood Office Furniture

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2541	Wood Partitions And Fixtures
	2542	Partitions And Fixtures, Except Wood
	2591	Drapery Hardware & Blinds & Shades
	2599	Furniture And Fixtures, Nec
	2621	Paper Mills
	2631	Paperboard Mills
	2652	Setup Paperboard Boxes
	2653	Corrugated And Solid Fiber Boxes
	2655	Fiber Cans, Drums & Similar Products
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2673	Bags: Plastics, Laminated, & Coated
	2679	Converted Paper Products, Nec
	2711	Newspapers
	2731	Book Publishing
	2752	Commercial Printing, Lithographic
	2754	Commercial Printing, Gravure
	2759	Commercial Printing, Nec
	2771	Greeting Cards
	2782	Blankbooks And Looseleaf Binders
	2789	Bookbinding And Related Work
	2791	Typesetting
	2796	Platemaking Services
	2819	Industrial Inorganic Chemicals, Nec
	2821	Plastics Materials And Resins
	2834	Pharmaceutical Preparations
	2841	Soap And Other Detergents
	2842	Polishes And Sanitation Goods
	2844	Toilet Preparations
	2851	Paints And Allied Products
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2891	Adhesives And Sealants
	2893	Printing Ink
	2899	Chemical Preparations, Nec
	2911	Petroleum Refining
	2951	Asphalt Paving Mixtures And Blocks
	2952	Asphalt Felts And Coatings
	2992	Lubricating Oils And Greases
	3052	Rubber & Plastics Hose & Belting
	3053	Gaskets, Packing And Sealing Devices
	3069	Fabricated Rubber Products, Nec
	3081	Unsupported Plastics Film & Sheet
	3082	Unsupported Plastics Profile Shapes
	3083	Laminated Plastics Plate & Sheet
	3084	Plastics Pipe
	3085	Plastics Bottles
	3086	Plastics Foam Products
	3087	Custom Compound Purchased Resins
	3088	Plastics Plumbing Fixtures
	3089	Plastics Products, Nec
	3149	Footwear, Except Rubber, Nec
	3221	Glass Containers
	3229	Pressed And Blown Glass, Nec
	3231	Products Of Purchased Glass
	3255	Clay Refractories

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3259	Structural Clay Products, Nec
	3272	Concrete Products, Nec
	3275	Gypsum Products
	3281	Cut Stone And Stone Products
	3291	Abrasive Products
	3292	Asbestos Products
	3295	Minerals, Ground Or Treated
	3296	Mineral Wool
	3299	Nonmetallic Mineral Products, Nec
	3312	Blast Furnaces And Steel Mills
	3315	Steel Wire And Related Products
	3316	Cold Finishing Of Steel Shapes
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3324	Steel Investment Foundries
	3325	Steel Foundries, Nec
	3334	Primary Aluminum
	3351	Copper Rolling And Drawing
	3353	Aluminum Sheet, Plate, And Foil
	3354	Aluminum Extruded Products
	3357	Nonferrous Wiredrawing & Insulating
	3365	Aluminum Foundries
	3366	Copper Foundries
	3369	Nonferrous Foundries, Nec
	3398	Metal Heat Treating
	3399	Primary Metal Products, Nec
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3429	Hardware, Nec
	3431	Metal Sanitary Ware
	3432	Plumbing Fixture Fittings And Trim
	3433	Heating Equipment, Except Electric
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3446	Architectural Metal Work
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3452	Bolts, Nuts, Rivets, And Washers
	3462	Iron And Steel Forgings
	3465	Automotive Stampings
	3466	Crowns And Closures
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3482	Small Arms Ammunition
	3483	Ammunition, Exc. For Small Arms, Nec
	3489	Ordnance And Accessories, Nec
	3492	Fluid Power Valves & Hose Fittings
	3496	Misc. Fabricated Wire Products
	3499	Fabricated Metal Products, Nec
	3511	Turbines And Turbine Generator Sets
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3533	Oil And Gas Field Machinery
	3534	Elevators And Moving Stairways
	3535	Conveyors And Conveying Equipment
	3537	Industrial Trucks And Tractors
	3541	Machine Tools, Metal Cutting Types
	3544	Special Dies, Tools, Jigs & Fixtures
	3548	Welding Apparatus
	3552	Textile Machinery
	3555	Printing Trades Machinery
	3556	Food Products Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3566	Speed Changers, Drives, And Gears
	3569	General Industrial Machinery, Nec
	3577	Computer Peripheral Equipment, Nec
	3579	Office Machines, Nec
	3581	Automatic Vending Machines
	3582	Commercial Laundry Equipment
	3585	Refrigeration And Heating Equipment
	3589	Service Industry Machinery, Nec
	3594	Fluid Power Pumps And Motors
	3596	Scales And Balances, Exc. Laboratory
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3624	Carbon And Graphite Products
	3625	Relays And Industrial Controls
	3629	Electrical Industrial Apparatus, Nec
	3631	Household Cooking Equipment
	3632	Household Refrigerators And Freezers
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3641	Electric Lamps
	3643	Current-carrying Wiring Devices
	3645	Residential Lighting Fixtures
	3646	Commercial Lighting Fixtures
	3647	Vehicular Lighting Equipment
	3648	Lighting Equipment, Nec
	3651	Household Audio And Video Equipment
	3652	Prerecorded Records And Tapes
	3663	Radio & TV Communications Equipment
	3669	Communications Equipment, Nec
	3671	Electron Tubes
	3674	Semiconductors And Related Devices
	3675	Electronic Capacitors
	3677	Electronic Coils And Transformers
	3679	Electronic Components, Nec
	3694	Engine Electrical Equipment
	3699	Electrical Equipment & Supplies, Nec
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3721	Aircraft
	3728	Aircraft Parts And Equipment, Nec
	3732	Boat Building And Repairing
	3743	Railroad Equipment
	3751	Motorcycles, Bicycles, And Parts



## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3761	Guided Missiles And Space Vehicles
	3764	Space Propulsion Units And Parts
	3769	Space Vehicle Equipment, Nec
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3821	Laboratory Apparatus And Furniture
	3822	Environmental Controls
	3825	Instruments To Measure Electricity
	3827	Optical Instruments And Lenses
	3829	Measuring & Controlling Devices, Nec
	3841	Surgical And Medical Instruments
	3842	Surgical Appliances And Supplies
	3843	Dental Equipment And Supplies
	3845	Electromedical Equipment
	3851	Ophthalmic Goods
	3861	Photographic Equipment And Supplies
	3914	Silverware And Plated Ware
	3931	Musical Instruments
	3942	Dolls And Stuffed Toys
	3944	Games, Toys, And Children's Vehicles
	3949	Sporting And Athletic Goods, Nec
	3965	Fasteners, Buttons, Needles, & Pins
	3991	Brooms And Brushes
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3996	Hard Surface Floor Coverings, Nec
	3999	Manufacturing Industries, Nec
	4491	Marine Cargo Handling
	4581	Airports, Flying Fields, & Services
	4741	Rental Of Railroad Cars
	4789	Transportation Services, Nec
	4833	Television Broadcasting Stations
	4911	Electric Services
	5015	Motor Vehicle Parts, Used
	5031	Lumber, Plywood, And Millwork
	5044	Office Equipment
	5051	Metals Service Centers And Offices
	5064	Electrical Appliances, TV & Radios
	5065	Electronic Parts And Equipment
	5072	Hardware
	5078	Refrigeration Equipment And Supplies
	5082	Construction And Mining Machinery
	5084	Industrial Machinery And Equipment
	5085	Industrial Supplies
	5088	Transportation Equipment & Supplies
	5092	Toys And Hobby Goods And Supplies
	5093	Scrap And Waste Materials
	5099	Durable Goods, Nec
	5111	Printing And Writing Paper
	5112	Stationery And Office Supplies
	5113	Industrial & Personal Service Paper
	5199	Nondurable Goods, Nec
	5211	Lumber And Other Building Materials
	5311	Department Stores
	5411	Grocery Stores
	5511	New And Used Car Dealers
	5712	Furniture Stores
	5912	Drug Stores And Proprietary Stores

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	5932	Used Merchandise Stores
	6021	National Commercial Banks
	6512	Nonresidential Building Operators
	6513	Apartment Building Operators
	6552	Subdividers And Developers, Nec
	7011	Hotels And Motels
	7216	Drycleaning Plants, Except Rug
	7336	Commercial Art And Graphic Design
	7389	Business Services, Nec
	7515	Passenger Car Leasing
	7532	Top & Body Repair & Paint Shops
	7534	Tire Retreading And Repair Shops
	7536	Automotive Glass Replacement Shops
	7538	General Automotive Repair Shops
	7539	Automotive Repair Shops, Nec
	7629	Electrical Repair Shops, Nec
	7694	Armature Rewinding Shops
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	7819	Services Allied To Motion Pictures
	7999	Amusement And Recreation, Nec
	8062	General Medical & Surgical Hospitals
	8211	Elementary And Secondary Schools
	8221	Colleges And Universities
	8222	Junior Colleges
	8711	Engineering Services
	8999	Services, Nec
	9199	General Government, Nec
	9223	Correctional Institutions
	9611	Admin. Of General Economic Programs
	9711	National Security
4-02-025	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Miscellaneous Metal Parts</i>	
	0111	Wheat
	1021	Copper Ores
	1311	Crude Petroleum And Natural Gas
	1611	Highway And Street Construction
	1623	Water, Sewer, And Utility Lines
	1721	Painting And Paper Hanging
	1799	Special Trade Contractors, Nec
	2052	Cookies And Crackers
	2068	Salted And Roasted Nuts And Seeds
	2082	Malt Beverages
	2295	Coated Fabrics, Not Rubberized
	2299	Textile Goods, Nec
	2399	Fabricated Textile Products, Nec
	2431	Millwork
	2434	Wood Kitchen Cabinets
	2439	Structural Wood Members, Nec
	2451	Mobile Homes
	2511	Wood Household Furniture
	2514	Metal Household Furniture
	2517	Wood Tv And Radio Cabinets
	2522	Office Furniture, Except Wood
	2531	Public Building & Related Furniture
	2542	Partitions And Fixtures, Except Wood
	2591	Drapery Hardware & Blinds & Shades
	2599	Furniture And Fixtures, Nec

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	2656	Sanitary Food Containers
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2752	Commercial Printing, Lithographic
	2759	Commercial Printing, Nec
	2796	Platemaking Services
	2821	Plastics Materials And Resins
	2842	Polishes And Sanitation Goods
	2844	Toilet Preparations
	2851	Paints And Allied Products
	2869	Industrial Organic Chemicals, Nec
	2892	Explosives
	2899	Chemical Preparations, Nec
	2951	Asphalt Paving Mixtures And Blocks
	2992	Lubricating Oils And Greases
	3011	Tires And Inner Tubes
	3052	Rubber & Plastics Hose & Belting
	3053	Gaskets, Packing And Sealing Devices
	3069	Fabricated Rubber Products, Nec
	3082	Unsupported Plastics Profile Shapes
	3083	Laminated Plastics Plate & Sheet
	3085	Plastics Bottles
	3086	Plastics Foam Products
	3089	Plastics Products, Nec
	3221	Glass Containers
	3231	Products Of Purchased Glass
	3264	Porcelain Electrical Supplies
	3272	Concrete Products, Nec
	3275	Gypsum Products
	3281	Cut Stone And Stone Products
	3292	Asbestos Products
	3295	Minerals, Ground Or Treated
	3312	Blast Furnaces And Steel Mills
	3313	Electrometallurgical Products
	3315	Steel Wire And Related Products
	3316	Cold Finishing Of Steel Shapes
	3317	Steel Pipe And Tubes
	3321	Gray And Ductile Iron Foundries
	3322	Malleable Iron Foundries
	3325	Steel Foundries, Nec
	3341	Secondary Nonferrous Metals
	3351	Copper Rolling And Drawing
	3353	Aluminum Sheet, Plate, And Foil
	3354	Aluminum Extruded Products
	3355	Aluminum Rolling And Drawing, Nec
	3357	Nonferrous Wiredrawing & Insulating
	3365	Aluminum Foundries
	3369	Nonferrous Foundries, Nec
	3398	Metal Heat Treating
	3399	Primary Metal Products, Nec
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3421	Cutlery
	3423	Hand And Edge Tools, Nec
	3425	Saw Blades And Handsaws
	3429	Hardware, Nec
	3432	Plumbing Fixture Fittings And Trim
	3433	Heating Equipment, Except Electric

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3441	Fabricated Structural Metal
	3442	Metal Doors, Sash, And Trim
	3443	Fabricated Plate Work (boiler Shops)
	3444	Sheet Metalwork
	3446	Architectural Metal Work
	3448	Prefabricated Metal Buildings
	3449	Miscellaneous Metal Work
	3452	Bolts, Nuts, Rivets, And Washers
	3462	Iron And Steel Forgings
	3465	Automotive Stampings
	3466	Crowns And Closures
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3482	Small Arms Ammunition
	3483	Ammunition, Exc. For Small Arms, Nec
	3484	Small Arms
	3489	Ordnance And Accessories, Nec
	3491	Industrial Valves
	3492	Fluid Power Valves & Hose Fittings
	3493	Steel Springs, Except Wire
	3494	Valves And Pipe Fittings, Nec
	3495	Wire Springs
	3496	Misc. Fabricated Wire Products
	3498	Fabricated Pipe And Fittings
	3499	Fabricated Metal Products, Nec
	3511	Turbines And Turbine Generator Sets
	3519	Internal Combustion Engines, Nec
	3523	Farm Machinery And Equipment
	3524	Lawn And Garden Equipment
	3531	Construction Machinery
	3532	Mining Machinery
	3533	Oil And Gas Field Machinery
	3534	Elevators And Moving Stairways
	3535	Conveyors And Conveying Equipment
	3536	Hoists, Cranes, And Monorails
	3537	Industrial Trucks And Tractors
	3541	Machine Tools, Metal Cutting Types
	3542	Machine Tools, Metal Forming Types
	3543	Industrial Patterns
	3544	Special Dies, Tools, Jigs & Fixtures
	3545	Machine Tool Accessories
	3548	Welding Apparatus
	3549	Metalworking Machinery, Nec
	3552	Textile Machinery
	3553	Woodworking Machinery
	3554	Paper Industries Machinery
	3555	Printing Trades Machinery
	3556	Food Products Machinery
	3559	Special Industry Machinery, Nec
	3561	Pumps And Pumping Equipment
	3563	Air And Gas Compressors
	3564	Blowers And Fans
	3566	Speed Changers, Drives, And Gears
	3567	Industrial Furnaces And Ovens
	3568	Power Transmission Equipment, Nec
	3569	General Industrial Machinery, Nec
	3571	Electronic Computers

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3577	Computer Peripheral Equipment, Nec
	3579	Office Machines, Nec
	3581	Automatic Vending Machines
	3585	Refrigeration And Heating Equipment
	3586	Measuring And Dispensing Pumps
	3589	Service Industry Machinery, Nec
	3592	Carburetors, Pistons, Rings, Valves
	3593	Fluid Power Cylinders & Actuators
	3594	Fluid Power Pumps And Motors
	3596	Scales And Balances, Exc. Laboratory
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3621	Motors And Generators
	3625	Relays And Industrial Controls
	3629	Electrical Industrial Apparatus, Nec
	3631	Household Cooking Equipment
	3632	Household Refrigerators And Freezers
	3633	Household Laundry Equipment
	3634	Electric Housewares And Fans
	3639	Household Appliances, Nec
	3641	Electric Lamps
	3643	Current-carrying Wiring Devices
	3644	Noncurrent-carrying Wiring Devices
	3645	Residential Lighting Fixtures
	3646	Commercial Lighting Fixtures
	3647	Vehicular Lighting Equipment
	3648	Lighting Equipment, Nec
	3651	Household Audio And Video Equipment
	3661	Telephone And Telegraph Apparatus
	3663	Radio & TV Communications Equipment
	3671	Electron Tubes
	3674	Semiconductors And Related Devices
	3675	Electronic Capacitors
	3676	Electronic Resistors
	3677	Electronic Coils And Transformers
	3679	Electronic Components, Nec
	3694	Engine Electrical Equipment
	3699	Electrical Equipment & Supplies, Nec
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3715	Truck Trailers
	3721	Aircraft
	3724	Aircraft Engines And Engine Parts
	3728	Aircraft Parts And Equipment, Nec
	3731	Ship Building And Repairing
	3743	Railroad Equipment
	3751	Motorcycles, Bicycles, And Parts
	3761	Guided Missiles And Space Vehicles
	3764	Space Propulsion Units And Parts
	3769	Space Vehicle Equipment, Nec
	3792	Travel Trailers And Campers
	3795	Tanks And Tank Components
	3799	Transportation Equipment, Nec
	3812	Search And Navigation Equipment
	3821	Laboratory Apparatus And Furniture
	3822	Environmental Controls
	3823	Process Control Instruments

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

---

Six-Digit SCC	SIC Code	SIC Description
	3824	Fluid Meters And Counting Devices
	3825	Instruments To Measure Electricity
	3826	Analytical Instruments
	3827	Optical Instruments And Lenses
	3829	Measuring & Controlling Devices, Nec
	3841	Surgical And Medical Instruments
	3842	Surgical Appliances And Supplies
	3843	Dental Equipment And Supplies
	3844	X-ray Apparatus And Tubes
	3845	Electromedical Equipment
	3861	Photographic Equipment And Supplies
	3914	Silverware And Plated Ware
	3944	Games, Toys, And Children's Vehicles
	3949	Sporting And Athletic Goods, Nec
	3955	Carbon Paper And Inked Ribbons
	3961	Costume Jewelry
	3965	Fasteners, Buttons, Needles, & Pins
	3993	Signs And Advertising Specialities
	3995	Burial Caskets
	3996	Hard Surface Floor Coverings, Nec
	3999	Manufacturing Industries, Nec
	4011	Railroads, Line-haul Operating
	4111	Local And Suburban Transit
	4226	Special Warehousing And Storage, Nec
	4231	Trucking Terminal Facilities
	4512	Air Transportation, Scheduled
	4581	Airports, Flying Fields, & Services
	4741	Rental Of Railroad Cars
	4789	Transportation Services, Nec
	4911	Electric Services
	4931	Electric And Other Services Combined
	5012	Automobiles And Other Motor Vehicles
	5015	Motor Vehicle Parts, Used
	5045	Computers, Peripherals & Software
	5051	Metals Service Centers And Offices
	5072	Hardware
	5082	Construction And Mining Machinery
	5083	Farm And Garden Machinery
	5084	Industrial Machinery And Equipment
	5085	Industrial Supplies
	5092	Toys And Hobby Goods And Supplies
	5093	Scrap And Waste Materials
	5169	Chemicals & Allied Products, Nec
	5712	Furniture Stores
	6021	National Commercial Banks
	6512	Nonresidential Building Operators
	6513	Apartment Building Operators
	7216	Drycleaning Plants, Except Rug
	7389	Business Services, Nec
	7532	Top & Body Repair & Paint Shops
	7538	General Automotive Repair Shops
	7539	Automotive Repair Shops, Nec
	7629	Electrical Repair Shops, Nec
	7692	Welding Repair
	7694	Armature Rewinding Shops
	7699	Repair Services, Nec
	7812	Motion Picture & Video Production
	8011	Offices & Clinics Of Medical Doctors

## Appendix D: Six-Digit SCCs With Multiple SIC Linkings

Six-Digit SCC	SIC Code	SIC Description
	8062	General Medical & Surgical Hospitals
	8211	Elementary And Secondary Schools
	8711	Engineering Services
	8731	Commercial Physical Research
	8734	Testing Laboratories
	9199	General Government, Nec
	9223	Correctional Institutions
	9511	Air, Water, & Solid Waste Management
	9661	Space Research And Technology
	9711	National Security
4-02-900	<i>Petroleum and Solvent Evaporation: Surface Coating Operations - Fuel Fired Equipment</i>	
	1321	Natural Gas Liquids
	2435	Hardwood Veneer And Plywood
	2652	Setup Paperboard Boxes
	2657	Folding Paperboard Boxes
	2671	Paper Coated & Laminated, Packaging
	2672	Paper Coated And Laminated, Nec
	2679	Converted Paper Products, Nec
	2752	Commercial Printing, Lithographic
	2759	Commercial Printing, Nec
	2851	Paints And Allied Products
	2865	Cyclic Crudes And Intermediates
	2869	Industrial Organic Chemicals, Nec
	2891	Adhesives And Sealants
	2911	Petroleum Refining
	3083	Laminated Plastics Plate & Sheet
	3089	Plastics Products, Nec
	3231	Products Of Purchased Glass
	3264	Porcelain Electrical Supplies
	3411	Metal Cans
	3412	Metal Barrels, Drums, And Pails
	3429	Hardware, Nec
	3444	Sheet Metalwork
	3469	Metal Stampings, Nec
	3471	Plating And Polishing
	3479	Metal Coating And Allied Services
	3585	Refrigeration And Heating Equipment
	3599	Industrial Machinery, Nec
	3612	Transformers, Except Electronic
	3624	Carbon And Graphite Products
	3711	Motor Vehicles And Car Bodies
	3713	Truck And Bus Bodies
	3714	Motor Vehicle Parts And Accessories
	3721	Aircraft
	3861	Photographic Equipment And Supplies
	3965	Fasteners, Buttons, Needles, & Pins
	3999	Manufacturing Industries, Nec
	4226	Special Warehousing And Storage, Nec
	5171	Petroleum Bulk Stations & Terminals
	8062	General Medical & Surgical Hospitals

This page is intentionally left blank.